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# A History of the PGA Golf Management Program at the University of Nebraska-Lincoln

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A HISTORY OF THE PGA GOLF MANAGEMENT PROGRAM AT THE  
UNIVERSITY OF NEBRASKA-LINCOLN

by

Brad Goetsch

A THESIS

Presented to the Faculty of  
The Graduate College at the University of Nebraska  
In Partial Fulfillment of Requirements  
For the Degree of Master of Science

Major: Leadership Education

Under the Supervision of Professor Dann Husmann

Lincoln, Nebraska

April 2017

A HISTORY OF THE PGA GOLF MANAGEMENT PROGRAM AT THE  
UNIVERSITY OF NEBRASKA-LINCOLN

Bradley Goetsch, M.S.

University of Nebraska, 2017

Advisor: Dann Husmann

This thesis project is aimed at creating an account on the history of the PGA Golf Management program at the University of Nebraska-Lincoln. Data on the history was gathered from publicly available sources and distilled from broader sources to create a comprehensive look into the history of a program that is now thirteen years old. Information was organized thematically looking at the overall context of the education of PGA Professionals, the start of the program, major events in the program's history, people involved in the program, facilities utilized, technology utilized and a future vision for the program.

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## Acknowledgements

The completion of a thesis takes a lot of time, effort and sacrifice. Much of the effort that went into this thesis came from others whom I need to thank. Without your help, I would not have been able to complete this thesis.

First, I want to thank my advisor, Dr. Dann Husmann. Dann, without your encouragement and guidance, there is no way that this research would have been completed. You always made yourself available when I was having issues or needed a sounding board for my thoughts and ideas. When I had problems you always had a solution ready to go. I appreciate your genuine enthusiasm for my project and for your willingness to also let me put my own stamp on it.

I also want to thank my committee members, Dr. Alan Baquet, Dr. Lloyd Bell, and Dr. Nathan Conner. The input I received from each of you had a significant influence on the quality and the overall net impact of my thesis. Your willingness to work with me and help with each and every issue I encountered on a tight timeline was critical to my success. I could not have done this without each and every one of you.

I want to thank my entire family. All of you contributed in significant ways. My wife, Sarah, you sacrificed time and energy helping me to complete this project. You were always ready with support when I was struggling and excitement when I experienced success. Without your unconditional support, it is unlikely I would have embarked on this project. To my children, Logan and Lillian, you are too young to even realize the sacrifice that you have made. You sacrificed precious family time allowing me to complete this project. When you read this one-day, I want you to know that you were a significant driving force in my being able to achieve success in this project. My Mother-

in-Law, Kelly, your expert proof-reading skills were essential in the completion of this work.

I would be remiss if I did not thank all of my students in the PGA Golf Management Program at UNL. Without you, there would be nothing to report on here. Thank you all for your patience as I worked my way through this, often pushing my grading duties to the back burner.

## **Forward**

History is an interesting phenomenon. Most of it can be captured through witnesses, historical documents, personal and professional records, photographs, and stories passed down from one generation to the next. In the case of this masters' thesis, Brad has made a solid attempt at capturing the PGA Golf Management Program at the University of Nebraska-Lincoln (UNL) at this point in time. What I find more remarkable is Brad's ability to search the archives, peruse the newsletters and program documents, and find the relevant and even minuscule activities and events that has made the golf management program what it is today. For one to be able to describe or explain history one must paint the whole picture of a particular phenomenon and in this specific case it is the PGA Golf Management Program at UNL.

Every living organism including our institutions and organizations has a beginning and more than likely an ending. Our institutions are made up of individuals who provide and construct history during their time with an organization. I've heard it told that it is the "dash" between a beginning and ending of a life that is important. For every person born will have a "dash" and it is what we do with our "dash" that makes and writes history. Our institutions evolve, change, and transform because the people or players change throughout its history.

Brad's thesis provides a rich description and account of the PGA Golf Management Program. From its beginning back in 2004 to where it is now, Brad has captured the stories, the people, and the events and activities that have made the program what it is today. And with today's technology, he was able to capture numerous visual examples of



our history along with the narratives and stories of our players. Too often throughout time history is lost, missing, or even changed based on lacking of evidence or artifacts and I blame us for not periodically taking “snapshots” of our lives and experiences to capture these precious moments of time.

I thank Brad for taking advantage of this opportunity to provide substance to the PGA Golf Management’s “dash” of our young history and strongly encourage others to be proactive in writing their stories as we become part of history. A clear and accurate picture of our past can provide clarity, perspective, and insight into our future. This is Brad’s moment in time and I appreciate his time and efforts in creating a written document of the history of our PGA Golf Management Program. Well done Brad!

## **Chapter I: Introduction**

Early in 2004, the PGA Golf Management Program at UNL earned its official accreditation by the PGA of America (Murray, 2004a) and set to officially begin in the fall semester of that year. The majority of the staff and faculty members directly associated with the program remain involved to this day on some level.

### **Purpose of the Study**

The events leading to the accreditation of the PGA Golf Management Program at the University of Nebraska and those that have since transpired are of great importance in understanding what the program contributes to the golf industry. This contribution includes not only qualified PGA professionals who can put their stamp on the industry, but also provides opportunities for prospective professionals to enhance their knowledge and position themselves to fundamentally change the industry. This study, after it is completed, will serve as a composite record of the events bringing the program into existence and may be used to influence future changes in the program. It is also meant to showcase the ongoing push to enhance and elevate the professions tied to golf and to serve as a reference for ways to promote beneficial change. The program is officially thirteen years old at the time of this writing and it seems now is an opportune time to look back at the accomplishments of the students, faculty and staff associated with the program. The hope is that in another ten years or so, a follow-up to this research will add the new and exciting things that are happening in the program.

**Research Questions**

This study aims to answer one fundamental research question: How did the PGA Golf Management Program at the University of Nebraska—Lincoln become what it is today?

**Subjectivity Statement**

Subjectivity is the quality of being based on or influenced by personal feelings, tastes or opinions (“Oxford Living Dictionaries,” n.d.). The writer of this research is a primary source of information and he has been part of the program staff since 2011. His involvement with the program means that some bias may be present, but also that there may be added benefit to this research because of this subjectivity. Prior to his arrival in this position, he was a student in the sister program at Ferris State University in Big Rapids, Michigan and started his participation in the program at the same time the program at UNL launched, giving him first hand knowledge from the student perspective, of the PGA curriculum during those initial years.

**Methodology**

The data collected in this study consists mainly of publicly available records compiled in one place to show the history of the program. One source of information was the collection of newsletters published by the Center for Grassland Studies, specifically those dated 2003-2017. Each newsletter was analyzed and relevant articles pulled, organized and incorporated into this research. In order to showcase the wider variety of events not covered in the newsletter articles, social media was tapped. In particular, the Facebook page for the program was analyzed and snapshots of posts pulled and used to exhibit the activities of the students and faculty/staff within the program. Within the

present culture, these sources proved to be rich with information showcasing the program through the years in terms of activities and achievements of those involved. At the start of the program, newspaper articles served to document the launch of the program. Some of the original articles are archived within the PGA Golf Management Program offices in Keim Hall and are referenced in this report.

On the academic side, a primary source of information consisted of published program bulletins. These bulletins show the academic requirements placed on the students for each year of the program starting with the first accredited year (2004-2005). Important changes in the bulletin are noted in the body of the text and all bulletins are included in appendix B for reference.

This study involved pulling all of this data from these various sources and organizing it into one place in a way that is easy to read and follow giving the reader an accurate account of the program from the time it was formed until the time of writing in 2017.

## **CHAPTER II: BACKGROUND INFORMATION**

The formation and evolution of the PGA Golf Management Program at the University of Nebraska—Lincoln happened in front of an industry background that included a well-established educational system. The PGA of America put this system in place over decades of working and re-working their method of preparing individuals for careers in the ever-changing golf industry. Systems included an apprentice program, designed to be followed outside of a college curriculum for those who already have degrees or do not wish to pursue a Bachelor's degree, and an existing university system that at the time of the formation of the program at UNL had fourteen accredited universities.

### **Background on PGA Education**

In 1916 a group of golf industry stakeholders led by department store magnate Rodman Wanamaker met in New York City to form the PGA of America. The purpose of the meeting and the formation of an association was to elevate golf professionals above the position of “player” or “hustler” to something more (PGA, 2017b). To this day the mission of the PGA reads as follows:

Since 1916, The PGA of America's mission has been twofold: to establish and elevate the standards of the profession and to grow interest and participation in the game of golf. By establishing and elevating the standards of the golf profession through world-class education, career services, marketing and research programs, the Association enables PGA Professionals to maximize their performance in their respective career paths and showcases them as experts in the game and in the multi-billion

dollar golf industry. By creating and delivering dramatic world-class championships and exciting and enjoyable golf promotions that are viewed as the best of their class in the golf industry, The PGA of America elevates the public's interest in the game, the desire to play more golf, and ensures accessibility to the game for everyone, everywhere. The PGA of America brand represents the very best in golf. (PGA, 2015b)

Clearly, from reading this mission, education is critical in elevating the profession. Currently, the PGA maintains two distinct but related pathways to membership in the organization, both of which are centered around education. The two pathways are: The PGA Golf Management University Programs and the PGA Apprentice Program (PGA, 2014a). At this point in time, both pathways are designed to follow the same basic curriculum, but the delivery is different. In the university programs, the curriculum is folded into a four and a half year Bachelor's degree program (PGA, 2016). In the Apprentice program, the curriculum is delivered via a combination of self-study materials and seminars hosted at the PGA Education Center in Port St. Lucie, Florida (PGA, 2014b).

### **Elements of the Curriculum**

The current program (known as PGA/PGM 2.0) is divided into four distinct levels: the Qualifying Level, Level 1, Level 2 and Level 3. Each level builds upon the knowledge gained in the previous level and each focuses on three core areas: the “people skills” needed in the golf industry, the business skills specific to the golf industry and knowledge of the game of golf (PGA, 2014b).

The following graphic illustrates the elements of the program:

PGM 2.0 PROGRAM AT A GLANCE			
QUALIFYING LEVEL	LEVEL 1	LEVEL 2	LEVEL 3
<b>Requirements</b>	<b>Pre-Seminars:</b> Accessed through the PGA Knowledge Center		
<ul style="list-style-type: none"> <li>Register for Qualifying Level</li> <li>Complete Qualifying Level Courses: <ul style="list-style-type: none"> <li>- Introduction to the PGA PGM</li> <li>- PGA History and Constitution</li> <li>- The Rules of Golf</li> </ul> </li> <li>Pass Qualifying Test</li> <li>Document qualifying Playing Ability Test score</li> <li>Document eligible employment or PGA Golf Management University enrollment</li> <li>Register as a PGA Apprentice and purchase Level 1 materials and online access</li> </ul>	<i>Golf Car Fleet Management</i>	<i>Turfgrass Management</i>	<i>Food and Beverage Control</i>
	<b>Business Planning</b>	<b>Golf Operations</b>	<b>Player Development Programs &amp; Teaching Business</b>
	<b>Customer Relations</b>	<b>Merchandising &amp; Inventory Management</b>	<b>Supervising &amp; Delegating &amp; Human Resources – Career Enhancement</b>
	<b>Tournament Operations</b>	<b>Intermediate Teaching &amp; Golf Club Alteration</b>	<b>Advanced Teaching &amp; Golf Club Fitting</b>
	<b>Introduction to Teaching &amp; Golf Club Performance</b>		<b>Final Experience</b>
	<b>Pre-Seminar Activities:</b> PGA Apprentices and PGA Golf Management University students are required to complete and document pre-seminar activities prior to attending seminars. These activities are designed to facilitate discussions during seminar learning exercises.		
	<b>Seminars:</b> Held at the PGA Education Center for PGA Apprentices and on campus for PGA Golf Management University students		
	<b>Business Planning</b>	<b>Golf Operations</b>	<b>Player Development Programs &amp; Teaching Business</b>
	<b>Customer Relations</b>	<b>Merchandising &amp; Inventory Management</b>	<b>Supervising &amp; Delegating &amp; Human Resources – Career Enhancement</b>
	<b>Tournament Operations</b>	<b>Intermediate Teaching &amp; Golf Club Alteration</b>	<b>Advanced Teaching &amp; Golf Club Fitting</b>
	<b>Introduction to Teaching &amp; Golf Club Performance</b>		<b>Final Experience</b>
	<b>Work Experience Portfolio:</b> The work experience portfolio emphasizes activities linked to on-the-job application and performance. There is a combination of subject specific tasks as well as integrated projects that the PGA Apprentice and the PGA Golf Management University student must accomplish.		
	<b>Knowledge Tests:</b> PGM participants must pass Knowledge Tests at each level before moving on to the next level. The tests will be comprised of multiple-choice and true/false items linked to each of the content domains listed above. Test registration is available on the PGA Knowledge Center and tests are taken at one of many sites available through a national network of testing centers.		
	Register and purchase Level 2 materials and online access	Register and purchase Level 3 materials and online access	Receive notification of PGM completion and PGA membership.

September, 2013

Figure 1: The PGM 2.0 Program at a Glance (PGA, 2014b)

Preceding the “2.0” program was what became known as the “1.0” program or originally the “PGA/PGM” program. The elements of the program were approximately the same, but the organization and delivery differed. There was no Qualifying Level and the teaching modules were much less involved. When students started on the material, they received hard cover binders with the reading materials. Work experience was done in word documents, printed and bound into three-ring binders. Tests were completed on Scantron forms and were all taken in a single battery of tests. Today students are exposed to the material for an individual subject or module. They then complete the work experience via an online portal and take a single test covering just that one subject. These two forms of the curriculum were experienced by all students who have gone through the

program at the University of Nebraska. Students starting the program in 2004-2009 participated in the PGA/PGM or 1.0 program while those starting 2010-present have followed the 2.0 curriculum.

**Checkpoints.** Associated with the 1.0 program checkpoints. Checkpoints at UNL were held during Spring Break week each year and consisted of testing and seminars conducted by the PGA. The testing covered the entire previous level's material and was delivered in a 'battery' format with one test after another. These tests were given on paper (using Scantron sheets) and graded after all testing sessions were completed. Students had to pass all tests at the checkpoint or during the retake the next day or they would have to miss out on the seminars and re-attend another checkpoint (usually at another location). The intent of the seminars was to launch the next level's materials. There were typically three days of seminars delivering key material from the next level. In the case of Level 3 (after which there is not another level), students would give individual presentations covering an industry topic of choice. They would also complete a mock job interview in which they were required to present a professional portfolio to their interviewer.

**The 2.0 Process.** The launch of the 2.0 curriculum saw the end of the checkpoint format. Moving forward, the process was to complete an online computer based test (still true/false, multiple choice) covering only the material immediately covered in class. As an example, the first module taught in Level 1 is Business Planning. Students would go through the material in classes (or seminars for apprentices), complete their work experience activities, and then take the appropriate test. Generally, for university students, tests are taken individually. For the apprentices, however, they are still



delivered in a battery format (all online). The seminar component is considered to be taken care of in the university programs through the normal delivery of the PGA Golf Management specific classes. The exception to this is the teaching module in each level. Students are exposed to the material in the normal classes and then a seminar is attached to this material at each level. For these seminars, the PGA of America sends their faculty to campuses to complete the covering of the material.

For the Apprentice path to membership with the PGA (non-university), students attend weeklong seminars at the education center in Port St. Lucie, FL covering all of the materials for the level. They then complete work experience activities as part of the normal duties of their jobs in the industry and lastly take a battery of tests at a local testing center. The material is all the same, but the process is different. This similarity/difference between the apprentice and university programs is consistent with that from the 1.0 process.

**Work Experience/Internships.** One other element that ties the university programs together and also applies to the apprentice program is the requirement of work experience. In short, on the apprentice side, students are required to work in an eligible classification and earn credits toward membership based on the number of months they work (PGA, 2014b). These credits combine with others they may have to make the apprentice eligible for membership.

On the university side, counting the credits for things like having a four year degree, completing the curriculum and seminars, the math works out such that university students are required to complete sixteen months of full-time internship work experience before they can graduate and obtain their PGA Membership (PGA, 2017a). This results in

each and every program having a robust internship component to their program. This is the reason that UNL has a staff member dedicated to managing the internships of students.

In the beginning of the program, up through 2016, the typical process for completing internships at UNL was to complete three months during each Summer term for the first three years then complete a seven month experience which could start in the summer of year four and go through the fall or could start in the spring and continue through the summer. In 2016, a shift was made to encourage students to have one short, three month experience and two extended six and seven month experiences (UNL, 2015). The reason for the change was to address an apparent need of the industry to provide each intern with more time at their facility so that they can learn the finer details of the facility and then apply that knowledge. This has obvious positive implications for the facility and for the student.

**Work experience activities.** A significant element of both the 1.0 and 2.0 programs has been the work experience activities. These are designed as the “hands on” application of the concepts learned in the classes/seminars. Each module has these accompanying activities. A favorite example is tied to the Introduction to Teaching module. In the classroom, students learn the finer points of how people learn, how we can make ourselves better instructors and all about the mechanics of the golf swing, but the only way to learn how to teach the game is to apply the knowledge and teach! On their first internship (in the 2.0 program), students are required to give a series of lessons to a beginner golfer. This lesson series is filmed and then faculty watch the video and read through a series of writings (including original lesson plans made by the student) to

provide feedback to the student on their progress toward becoming an expert golf instructor. Each module contains its own unique set of activities to accomplish this task of helping the student to grasp and master the content of the curriculum. Appendix A contains the work experience checklists for the 1.0 and 2.0 programs.

**Playing ability test.** The playing ability test or “PAT” is one more element that is consistent across all universities and the apprentice program. It is the PGA of America’s benchmark test of the playing ability of a prospective member of the association (PGA, 2015a). The test consists of thirty-six holes of golf on a “regulation” golf course and the player must shoot a target score that is within fifteen shots of the USGA course rating doubled (Course rating x 2+15). The test must be taken by apprentices in order to register in the program. They must either pass it or post a ‘qualifying’ score which is one 18 hole score within 5 strokes of the target passing score. For university students, they must have an established handicap index of 12.0 or better to enroll. Some universities require a lower handicap to enroll. Nebraska utilizes the PGA standard of 12.0. This handicap requirement replaces the PAT requirement for registration. Passing the PAT is required for membership regardless of pathway, and for university students there is a minimum attempt schedule. Students must attempt the test at least once in their first year and twice per year after until passed. Once the test is passed it does not have to be retaken or renewed.

### **Universities Offering the Program**

There are currently eighteen universities accredited by the PGA of America (PGA, 2017a). At one point there were twenty universities but two (Arizona State and

Florida State) have cut their programs for undisclosed reasons. The list of universities along with accreditation dates is as follows:



Campbell University, Buies Creek, NC (1999)



Clemson University, Clemson, SC (2001)



Costal Carolina University, Conway, SC (1999)



Eastern Kentucky University, Richmond, KY (2006)



Ferris State University, Big Rapids, MI (1975)



Florida Gulf Coast University, Ft. Myers, FL (2005)



Methodist University, Fayetteville, NC (1999)



Mississippi State University, Mississippi State, MS (1985)



New Mexico State University, Las Cruces, NM (1987)



NC State University, Raleigh, NC (2002)



Penn State University, University Park, PA (1990)



Sam Houston State University, Huntsville, TX (2005)



University of Central Oklahoma, Edmond, OK (2008)



University of Colorado Colorado Springs, Colorado Springs, CO (2003)

University of Idaho

University of Idaho, Moscow, ID (2002)



University of Maryland Eastern Shore, Princess Anne, MD (2008)





University of Nebraska-Lincoln, Lincoln, NE (2004)



University of Nevada-Las Vegas, Las Vegas, NV (2002)

**Schools, which have dropped their programs:**



Arizona State University, Tempe, AZ (1999-2014)



Florida State University, Tallahassee, FL (1999-2017)

### **Alternative Path to PGA Membership**

The PGA of America also offers a pathway through the education process, which leads to PGA membership called the “Apprentice” program. The design intent of this pathway is to serve potential members who already have a 4 year degree or those already in the industry who do not intend on completing a college degree (PGA, 2014b). On their website, the PGA of America makes this statement regarding the similarities of the programs:

While the apprentice and university programs differ in significant ways, both pathways require completion of the same PGA PGM curriculum, work experience, PGA Playing Ability Test, and employment or internship requirements. (PGA, 2017a)

Noted in the statement is one of the key differences between the two. Apprentices gain work experience credits by being employed full-time in the industry while university students earn their work experience by completing internships. As noted above, a prospective member does not have to have a college degree, in fact only a high-school diploma is required for graduation, but credit toward membership is granted for having a degree.

## 100 Years of PGA Education

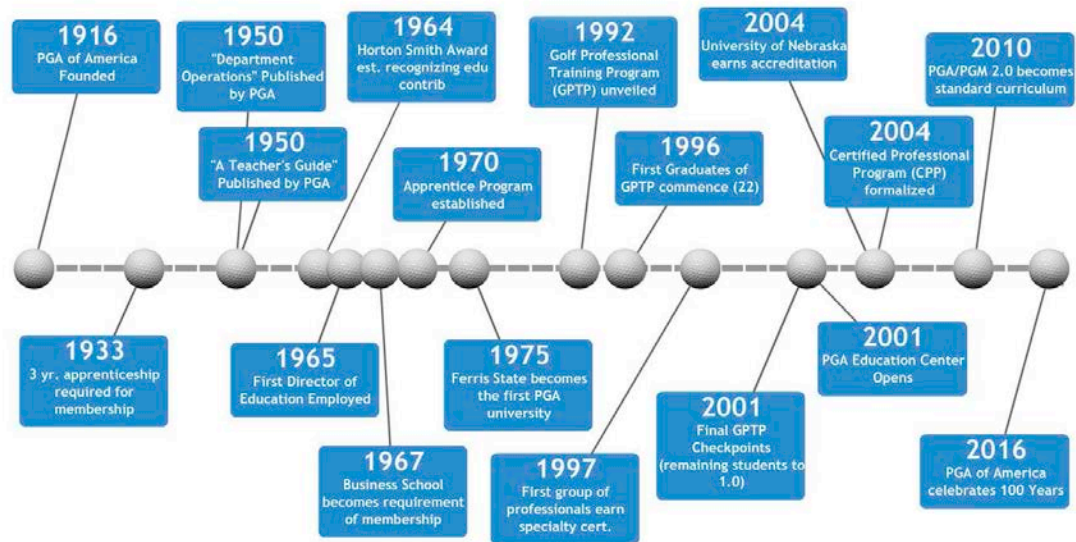


Figure 2: PGA of America Timeline of Education (PGA, 2017b) (Graphic: Author's Own)

### **Chapter III: The UNL PGA Golf Management Program**

In 2004, the University of Nebraska became the fifteenth university to become home to a PGA Golf Management Program accredited by the PGA of America (Murray, 2004a). Since its inception, the program has changed in terms of personnel, curriculum and facilities. One thing that has remained the same from the beginning is the essential mission of the program; “To help people turn the game they love into a career they love.” (PGM, 2013) Providing an education that gives students the breadth and depth needed to excel in the golf industry as a PGA professional does this. A key hallmark of the program (and in fact all university programs) is that students are eligible for direct election to Class “A” PGA membership. Once a student graduates from the program, obtains a position within the industry, passes a background check and completes a membership application form, they will obtain their membership. (PGA, 2017a)

#### **The Start of the Program**

The meeting of the Board of Regents of the University on July 13<sup>th</sup>, 2002 marked the first documented references to the program (“Nebraska Board of Regents Meeting,” 2002). The recommendation made to the Board was that they “Approve the undergraduate major in Professional Golf Management with a Bachelor of Science Degree in Agricultural Sciences implemented January 1, 2003”. This recommended action was sponsored by John C. Owens, NU Vice President/IANR Vice Chancellor and Richard Edwards, Senior Vice Chancellor for Academic Affairs and approved by Harvey Perlman, Chancellor, University of Nebraska-Lincoln. The program also had the support of others, including Dr. Martin Massengale, Director of the Center for Grassland Studies and University of Nebraska President Emeritus as well as Dr. Terry Riordan. The Board

approved the program and the first semester was set for fall of 2003. Twenty-three students were set to make up that first cohort, however the PGA had not yet accredited the program (Olson, 2003). The PGA of America officially accredited the program in February of 2004 (Murray, 2004c). One could theorize that the approval encountered friction and a strong case had to be made to both the Board and to the PGA in order to get the program off the ground. The article by Eric Olson (2003) made reference to some of this potential friction:

At a time when state funding cuts are forcing the elimination of other programs at the University of Nebraska, the golf program could make money by attracting students who otherwise would not attend Nebraska, said Martin Massengale... Hunkler said Nebraska won't achieve PGA accreditation by the time classes begin Aug. 25.

This is how the description of the program first appeared in the 2004-2005

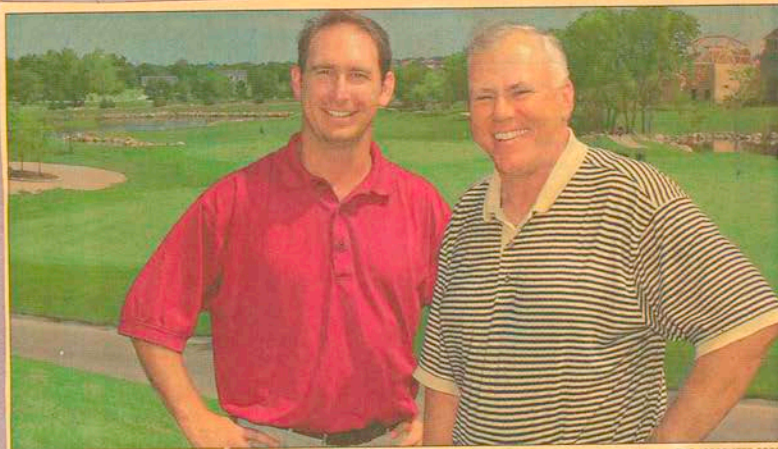
Undergraduate Bulletin:

The Professional Golf Management major is designed for students who wish to be educated in all aspects of the golf industry. This comprehensive program blends college academic requirements with requirements of the Professional Golfer's Association of America's Professional Golf Management Program (PGA/PGM<sup>TM</sup>), and includes structured internship experiences. The purpose of the program is to produce a graduate that has a basic background in managing golf facilities and related organizations, business and personnel management, restaurant and hospitality

management, recreation, and golf instruction methods. In February 2004, this became the 15th PGA/PGM program to be accredited by the PGA<sup>TM</sup>.

JOURNAL STAR  
Thursday, July 24, 2003

# Golfing for a degree



THE ASSOCIATED PRESS

Scott Holly, internship director of the new University of Nebraska-Lincoln's professional golf management program (left) poses with Terry Riordan, a professor in the Center for Grassland Studies, who has been re-assigned to the position of PGM director, pose Wednesday July 9 at the Wilderness Ridge Golf Course in Lincoln. The 22 men and one woman who enrolled in the University of Nebraska-Lincoln's professional golf management program this fall won't just be students of the game. They'll be students of a business that accounts for more than \$62 billion in goods and services nationwide.

## New program at Nebraska gives students chance to get head start on club pro career

BY ERIC OLSON  
The Associated Press

Playing golf for college credits might sound like a slacker's dream come true, but it's serious business for the 23 students signed up for the first semester of the University of Nebraska-Lincoln's professional golf management program.

Rather than being just students of the game, they'll be trained in many facets of an \$62 billion industry.

The golf boom of the last 20 years has led the PGA to recommend that people wanting to become club professionals learn the business in a college setting.

The new course of study at the state of Nebraska's largest university campus opens for class next month.

Traditionally, club pros participated in a self-study program that culminates in a series of tests that lead to graduation from the PGA school in Florida. But with the duties of running a golf course becoming multi-dimensional and more complicated, good players who just have a high school diploma won't cut it anymore.

"The employers today are demanding that club pros be college-educated," said Chris Hunkler, the PGA's senior director of education.

The PGA hopes to have professional golf programs established at 20 colleges and universities within the next few years.

Nebraska, which is set to be the 15th, is in an ideal location, Hunkler said. Half of the 14 operating programs are in the Southeast, and the PGA has placed a moratorium on new programs in that part of the country. Nebraska's program will be the only one offered between Ferris State University in Michigan and the University of Colorado at Colorado Springs.

At a time when state funding cuts are forcing the elimination of other programs at the University of Nebraska, the golf program could make money by attracting students who otherwise would not attend Nebraska, said Martin Massengale, director of NU's Center for Grassland Studies, which will oversee the program.

The program's start-up cost is \$43,000, which covers the hiring of the program's internship director, Scott Holly. Terry Riordan, a professor in the Center for Grassland Studies, has been re-assigned as the program's director.

Students pay for the materials required by the PGA.

"After the program is in full swing, it will bring in more money than it will cost to run it," Massengale said.

Nebraska is waiting to receive its PGA accreditation before beginning to actively recruit students. Riordan said the 23 students — 22 men and one woman — who will enter the program this year heard of it through word of mouth.

Hunkler said Nebraska won't achieve PGA accreditation by the time classes begin Aug. 25.

Massengale said that's not a major concern. As NU completes the accreditation process, the golf-management students will take core curriculum courses such as math, science, English and humanities.

Riordan said the golf program's curriculum will include lots of business

courses and a good number in the areas of turf science and hospitality.

And, yes, the students will have to play a lot of golf in order to pass the PGA's player ability test — one of the three checkpoints a prospective pro must pass in order to become a PGA member.

Nebraska has signed contracts with Wilderness Ridge Golf Course and Hillcrest Country Club for use of their facilities in Lincoln.

Holly, a 34-year-old Sidney native, is a graduate of New Mexico State's professional golf management program.

Before taking the job at Nebraska, he had been working as an assistant pro on the Robert Trent Jones Golf Trail in Alabama.

Holly said the life of a club pro doesn't come close to matching those of the touring pros seen on television every weekend.

With the median annual salary for a starting club pro at \$23,000, Holly said, one must be driven by a love for the game. The typical club pro works 50-plus hours a week during the golf season and often is responsible for the financial books at a course as well as overseeing the food and beverage service and the cart fleet, giving lessons, repairing clubs and selling merchandise.

"The hours you're going to be working, with the long days and weekends, you have to ask yourself if this is something you really want to do," Holly said. "Are you getting into the profession because you think you're going to get to play golf all day? It's not an 8-to-5 job with weekends off."

The university-based golf programs take 4½ years to complete. In addition to taking courses and passing checkpoints at specific times, prospective pros must complete 16 months of practical work experience at courses.

There is a high attrition rate. Hunkler said about 3,000 people start the PGA apprenticeship program each year but only about 1,200 graduate.

Figure 3: Lincoln Journal Star article about the start of the program (Olson, 2003)



Professional Golf Management Program  
University of Nebraska-Lincoln  
225 Keim Hall  
Lincoln, NE 68583

Contact: Terry Riordan  
(402) 472-1142  
Fax: (402) 472-4104  
Email: [pgm@unl.edu](mailto:pgm@unl.edu)

For immediate release.

# UNL LAUNCHES PROFESSIONAL GOLF MANAGEMENT PROGRAM August 12, 2004

(Lincoln, NE) – The days when the golf professional just gave a few lessons and had lunch with the club members are gone. Today's successful golf professional is an astute business person who understands the business of golf from marketing to managing the pro shop. To train this new breed of golf professional, the University of Nebraska-Lincoln will offer the only Professional Golf Professional Management program in the Midwest (east of the University of Colorado at Colorado Springs and west of Ferris State University in Michigan) and is one of just 15 such programs in the United States beginning this fall.

The first official cohort group of PGM students will be honored at a reception **Sunday, August 22 at 3:00 pm** at the program's golf facility of **Wilderness Ridge**. University officials, the PGM staff and others from Wilderness Ridge will be on hand to welcome the students to the program. A short tour of the facility will follow.

The Golf Professional Management Program is a four-and-one-half year college curriculum for aspiring PGA Professionals. The PGM program will provide students the opportunity to acquire the knowledge and skills necessary for success in the golf industry through extensive classroom studies, self-study courses, internship experience and player development. The goal of the PGA/PGM Program at the University of Nebraska-Lincoln is to produce a graduate who meets the qualifications to be a PGA member and has a basic background in managing golf facilities and related organizations, business and personnel management, restaurant and hospitality management, and recreation. Integration of the subject matter in the diverse curriculum, which includes courses in business (management, marketing, finance, accounting), general science (biology, chemistry, physics) plant science, food service management, communications and leadership development as well knowledge of the game of golf and the golf industry, will be realized in the major's capstone course, seminars, and the required internships.

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Figure 4: Press Release by Dr. Riordan announcing the start of the program (Riordan, 2004)



The program was started under the umbrella of the Center for Grassland Studies. The Center was founded in 1994 under the direction of Dr. Martin Massengale, President Emeritus of the University of Nebraska (“History- Center for Grassland Studies,” n.d.). The mission of the center is “to implement focused, interdisciplinary research, educational and service programs and activities that emphasize the role of grasslands as a natural resource and conservation measure and that enhance the efficiency, profitability, sustainability, and aesthetic value of grasslands, wetlands and turfs.” (“Mission- Center for Grassland Studies,” n.d.) The following article was published in the Spring 2004 CGS Newsletter showcasing the newly announced Professional Golf Management Program at UNL:

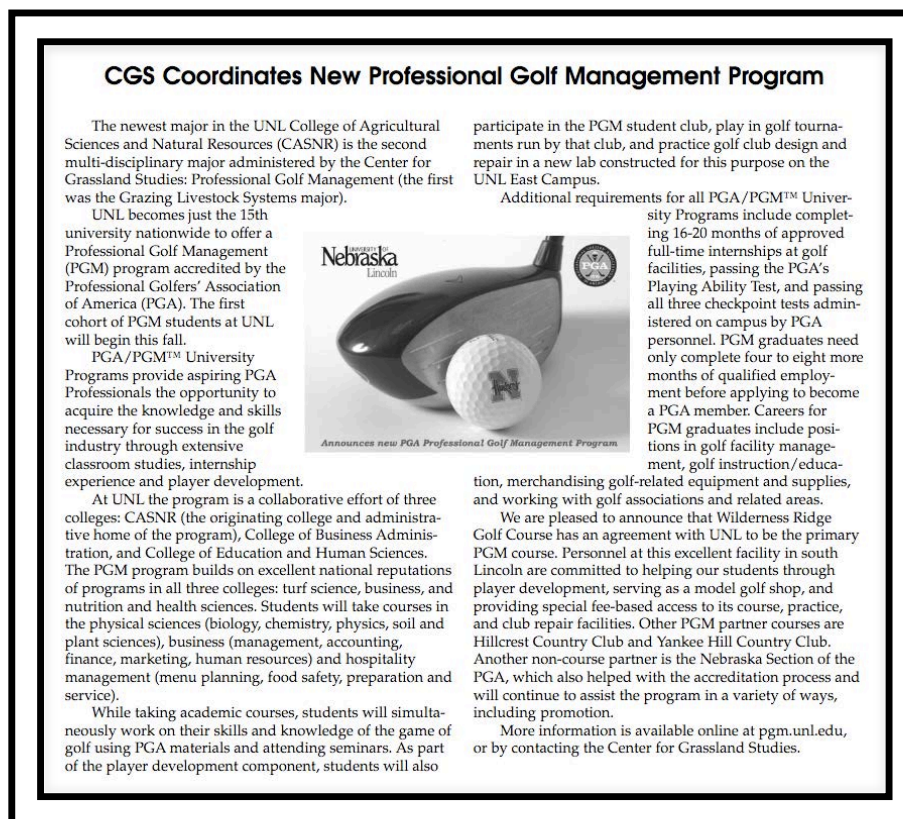


Figure 5: CGS Newsletter Article Announcing Program (Murray, 2004a)

## **The Program Curriculum**

Each year brings a new undergraduate bulletin and each bulletin brings the possibility of a new curriculum to the program. There have been numerous changes through the years (all bulletins in Appendix B) but there have been several major changes to the overall curriculum within the program. Major changes include changes to the minimum number of credit hours required for graduation, the addition of the Business Minor to the standard program and the changes to the PGA Golf Management specific courses. The first bulletin (“PGM Bulletin 2004-2005,” 2004) was published in June of 2004 and included the original 128 credit hour program.

**Changes to the number of credits required.** These changes were, in fact, felt all over the University. Originally, at the start of the program, the Bachelor’s degree required a minimum of 128 credit hours. The 2010-2011 academic year saw a reduction in this number by 3 credits making the new minimum 125 (“PGA Golf Management Bulletin 2010-2011,” 2010). Another reduction in 2012-2013 brought the minimum to 120 total credit hours required to graduate (“PGA Golf Management Bulletin 2012-2013,” 2012). This final reduction in credits was meant to align the degree programs with something known as the P-16 initiative (“Nebraska’s P-16 Initiative,” n.d.; UNL, n.d.) As one can imagine, these changes led to a large number of students moving from their original bulletins into newer ones.

**The addition of the Business Minor.** The 2013-2014 academic year saw the addition of a brand new Business Minor in the College of Business Administration (“PGA Golf Management Bulletin 2013-2014,” 2013). Director Dr. Alan Baquet was instrumental in working with CBA to roll out this new minor and to make it a key feature

of the program at UNL. While the PGA curriculum covers a great deal of business elements (especially those related directly to golf), there was the need to make the business focus of the program more prominent. From that point onward students entering, following and graduating from the program would receive a Bachelor's of Science in PGA Golf Management and a Minor in Business. From both a student education and a recruitment standpoint, this was monumental. This change led to another wave of students changing bulletins.

**PGA Golf Management specific courses.** Also in 2013-2014 was a change in the credit hours allocated to some of the PGAM courses. The original spring courses (112, 212 and 312) were originally 1 credit courses (489 has always been the capstone and 3 credits) ("PGA Golf Management Bulletin 2013-2014," 2013). This made sense in the 1.0 program where the classes were used for the completion of work experience activities, but 2.0 came with additional materials and content. This required more time, which translated into these courses needing to be 3 credits.

The 2016-2017 bulletin saw the most recent significant change to the layout of the program. This change involved offering credit-bearing courses for internship completion ("PGA Golf Management Bulletin 2016-2017," 2016). Moving forward, students were able to register for up to 15 credits of internship through the new PGAM 495 course and use these to count toward their 120 credits total. Students who don't need the credits (transfer, additional minors, double majors, etc.) can opt out of the 495 course, however they still have to complete the sixteen months of internship per PGA requirements. Related to this, but fundamentally different is the PGAM 295 ("extended internship") course. This course is a non credit-bearing course and has been used as a placeholder to

identify students on internship not taking credit-bearing courses as “full time”, which has implications for students on their parent’s insurance plans, or with student loans, etc.

## The Program Through the Years

The following section contains excerpts from the Center Newsletters containing updates on the program as well as updates from any other sources available.

2004

Center for Grassland Studies
Summer 2004

### High School Students Improve Their Game While Having Fun at Big Red Golf Camp

In mid-June seven male and three female high school students participated in the Big Red Golf Camp sponsored by the University of Nebraska Cooperative Extension 4-H Youth Development program and taught by the UNL Professional Golf Management (PGM) program coordinator Scott Holly and PGM director Terry Riordan. The students ranged from those who had little or no past golf instruction to those who had received considerable individualized instruction from their high school golf coaches.

While the students joined other campers in a five-day stay on campus, the ten golfers spent three and one-half of those days acquiring knowledge and skills of golf. Holly said while they were attentive during the “classroom” portions of the camp (e.g., learning about the rules and etiquette of golf), not unexpectedly, they had the most fun while playing in single and team events, which they did each day at various courses.

Holly, a PGA professional, provided individual as well as group instruction, which included proper positioning for various types of shots – putt, chip, drive, bunker. “Several of the students had pretty good swings, but they didn’t know the right set-up position for each type of swing, which is key to the success of a shot. This was particularly evident with the bunker shot,” Holly said. “For example, even the students who play on school teams didn’t know how to properly set up for a bunker shot. Once they were shown that you have to hit the sand and not the ball, it was like a light bulb went

off over their heads,” he said.

Holly takes video of each camper’s swings from two positions: face-on and down-the-line. Doing so allows analysis of each golfer’s swing positions for the various types of shots. At last year’s inaugural 4-H golf camp, there was time for the group to view the video and learn from it. This year time ran out, so following the camp, Holly studied the video, wrote helpful comments about each golfer’s swings, and mailed the video and comments to the campers.

The golf camp culminated in a luncheon at Wilderness Ridge Golf Course following a nine-hole tournament there (the second nine holes were rained out). Several family members joined their campers for the luncheon.

Plans are already under way for the 2005 golf camp. To be put on the mailing list for a brochure, call or e-mail the 4-H office, 402-472-2805, [pjefries1@unl.edu](mailto:pjefries1@unl.edu).




PGM coordinator Scott Holly demonstrates the pendulum motion of putting to students in the Big Red golf camp.

Now what was it Scott said about set-up position for putting?



Does anyone have a golf club Lil' Red can use?

Figure 6: CGS Article 1 (Murray, 2004b)



Summer 2004

Center for Grassland Studies

## Multiple Dimensions of a Strong Professional Golf Management Program

by Charles Francis, Department of Agronomy and Horticulture, UNL

Many people applaud the arrival of the new Professional Golf Management (PGM) program at UNL. This program provides unique opportunities for students to prepare for a professional career in the recreation and leisure industry of this country.

Strength of the program will depend on diversity. PGM graduates will deal with turf management, business operations, food and beverage management, golf instruction, and public relations. They will also have to cope effectively with questions about the ethical use of resources connected with the game of golf. It is not an unlikely scenario that PGM graduates would find themselves in a position of having to address ethical issues such as the impacts of golf courses on the broader ecosystem and the people who inhabit this planet.

An article in the January/February 2004 issue of *WorldWatch* magazine listed some rather startling statistics on the use of water and pesticides by golf courses around the world. While one could argue about how accurate or current the numbers are, all would probably agree that golf courses do have a significant impact on our natural resources in terms of use of land, water and pesticides.

Water will be one of the key limiting factors for supporting the human population through agriculture in the current century. Clean water for household use is already a major problem for over a third of the people on the planet. Since the days of Rachel Carson's *Silent Spring*, we have been more aware of the unintended effects of chemical pesticides on our food and in our environment. The judicious use of water as a natural and limited resource, as well as informed and careful use of pesticides, should be among the foundations of our future decisions on how to allocate scarce resources for a sustainable future.

How do we deal with ethical issues such as these in education? One approach commonly taken in agriculture is

to consider these as externalities to the curriculum. For example, the emphasis for horticulture majors studying to become golf course superintendents traditionally was presentation of an attractive physical golf course layout and a solid business plan for its operation. While we can include in our turf science courses the latest research and management techniques that require less water and pesticides, we should not stop there.

A more comprehensive approach to liberal education, including the new PGM program, is to consider all the ramifications, all the positive and negative impacts, of the game of golf and the resources it consumes. Those graduates will be better able to deal with the questions that arise in a resource-scarce world, a world that we hope will include clean water and air and produce enough food to meet human needs while not sacrificing other species and the entire ecosystem in order to meet those needs.

It is difficult to comprehend the potential impacts of conversion of farmland to golf courses in a country such as the U.S. where there is surplus food production and ample export potential. It is a more immediate problem in Thailand where 60 hectares of prime farmland in rice is converted into golf courses for visiting Japanese and other tourists to enjoy. There is no question about the economic benefits of foreign tourists to the Thai economy, but many question the long-term wisdom of sacrificing food production potential for short-term balance of payments.

Let us strive to produce well-educated graduates who are prepared to deal with the complexities of a future with scarce resources. They will have to deal with a public that is increasingly aware and concerned about land and other resource use. Our Professional Golf Management and horticulture programs can be models for other professional programs if we are willing to address effectively these difficult issues.

Figure 7: CGS Article 2 (Francis, 2004)

## Professional Golf Management Program Tees Off with 31 Students

Terry Riordan, PGM Director, Steve Waller, Dean of the College of Agricultural Sciences and Natural Resources, and Jim White, Director of Operations at Wilderness Ridge Golf Course, were among those welcoming students and their family members to a reception on August 22 celebrating the first year of the accredited Professional Golf Management program at UNL.

The first UNL PGM cohort consists of a fine group of 31 young men ranging from new high school graduates to those returning to college after several years in the workplace. While we're very pleased to have these students, we do hope that next year's cohort includes some diversity, and we will be working actively toward that end.

The Spring 2004 issue of this newsletter provided some details about the PGM program. Here is a brief update.



2004 PGM Student Club. Officers (seated, from left): Jason Harrell, President; Josh White, Vice President; Ross Kupitz, Treasurer; Brade Cloke, Secretary.

The Web site ([pgm.unl.edu](http://pgm.unl.edu)) was significantly enhanced over the summer, and has proved quite effective as a recruiting tool. The site is also a source of information for our current students such as tournament results and internship opportunities. Our partner golf courses use it to check in PGM students who come to play there. The database section of the site is used to keep track of the extensive data on each student that is required by the PGA.

In August we completed the staffing of the PGM office when Tara Pawling was hired. Tara graduated with a journalism degree from UNL and worked for a sports marketing company in Chicago before moving back to Lincoln and accepting the PGM Administrative Assistant position. The two other members of the PGM team are Director Terry Riordan, a UNL turf scientist with a Ph.D. in plant breeding, and Coordinator Scott Holly, who graduated from the New Mexico State University PGM program and was a golf professional at Bayside Golf Course in Nebraska and RTJ Golf Trail in Alabama prior to joining the UNL PGM team. The Center for Grassland Studies

team of Martin Massengale, Pam Murray and Jan Shamburg will continue to provide their expertise in support of the PGM program.

In October remodeling of the PGM student room as well as the newly-equipped golf club repair and design lab on campus was completed. The student room will be used to watch golf lessons on the golf channel, use a computer for PGA-required activities, read reference materials, view instructional videos, read notices on the bulletin board, register for tournaments, hold small meetings, study or visit with fellow PGM students. The students will use the lab to complete the required activities in the "golf club design and repair" module in their Level 1 PGA books, including regripping and adjusting the lie and loft of their clubs.

Ten PGM tournaments were held at various Lincoln courses in the first two months of the semester. The objective of the heavy tournament schedule is to prepare the students to pass the PGA's Playing Ability Test (PAT), which is a graduation requirement.

Please help spread the word about this exciting new major by referring potential PGM students to the Web site or to the PGM office, 402-472-7467, [pgm@unl.edu](mailto:pgm@unl.edu).

## CGS Director Massengale Inducted into CSREES Hall of Fame

In September Dr. Martin Massengale, Director of the Center for Grassland Studies since its inception in 1994, received a letter from Colien Hefferan, Administrator of USDA's Cooperative State Research, Education and Extension Service (also established in 1994), informing him that he is one of ten original inductees into the new CSREES Hall of Fame. The letter stated:

*Through sustained, collective efforts, that you were a part of, we see a world in which agriculture is viewed as a science-based, global enterprise, fueled by the hard work and sound decisions of producers, processors, and consumers, sparked by the innovation of scientists and educators. This honor signifies the contributions you have made over the past ten years to help CSREES complete a "Decade of Excellence."*

Since 1998 Massengale has served on the Secretary of Agriculture's National Agricultural Research, Extension, Education and Economics Advisory Board, and currently serves as chair.

On October 21 Massengale attended a ceremony in Washington, DC where he accepted the award and addressed the audience on the ten-year history of CSREES.

Figure 8: CGS Article 3 (Murray, 2004c)



2005

Center for Grassland Studies
Winter 2005

## PGM Program Swings into 2<sup>nd</sup> Semester


The first semester was very busy for Professional Golf Management students and staff. Second semester isn't much different! In January PGM staff and three students attended the 2005 PGA Merchandise Show in Florida where they met with their counterparts from other PGA/PGM™ programs as well as with PGA personnel. They also talked with people who visited our exhibit during the show. This is THE major event for people in the golf industry, with an average attendance around 40,000. All PGM schools are represented at this annual event.

The PGM Student Club is planning a fund-raiser for later in the semester that will involve a tournament, silent auction and dinner. Information will be posted in the Student Club section of the Web site ([pgm.unl.edu](http://pgm.unl.edu)).


High school students interested in attending a golf camp in Lincoln have two options this summer. PGM staff members have been working with U.S. Sports Camps to organize a five-day Junior Resident Camp for more advanced golfers. Campers will receive daily instruction

from PGA professionals with video analysis, play at local courses, and attend sessions on rules, etiquette and the mental game of golf, and participate in evening activities. Camp dates are June 20-24, and cost is \$685. For more information, see [www.ussportscamps.com](http://www.ussportscamps.com).

PGM Director Terry Riordan and Coordinator Scott Holly, a PGA professional, will again conduct the Big Red Golf Camp sponsored by the University of Nebraska Cooperative Extension 4-H Youth Development program. Campers will have on-the-course and in-the-classroom sessions throughout the week. The camp will conclude with a tournament and awards banquet. The camp, which is open to high school students at all levels of playing ability, will be June 12-17. Registration fee is \$440 if received by the April 1 priority deadline, \$490 by the final deadline of May 1. A brochure on the Big Red Camps is available online at [bigredcamps.unl.edu](http://bigredcamps.unl.edu), or call 402-472-2805 to have one mailed to you.



The PGM student room is used for watching golf instruction videos and programs on the plasma TV, accessing the Internet, reading reference materials, registering for tournaments, holding small meetings, studying, or just visiting with fellow PGM students.



PGM student Brad Thorberg hits a ball at Wilderness Ridge Golf Course early in the school year.

### 2005 Nebraska Grazing Conference to be Aug. 8-9

Kearney will be the site of the fifth annual Nebraska Grazing Conference, to be held August 8-9, 2005. The program is in the planning stages. Past participants will receive a brochure in the mail. Watch for details in the Spring 2005 issue of this newsletter and in other media outlets. Updates will also be posted at the conference Web site: [www.grassland.unl.edu/grazeconf.htm](http://www.grassland.unl.edu/grazeconf.htm).

Figure 9: CGS Article 4 (Murray, 2005b)

### PGM Enrollment More Than Doubles in Second Year

In Fall 2004 we began the first year of the PGA-accredited Professional Golf Management program with 31 students. We're very excited to report that this year we have a total of 74 PGM students who are busy attending class, studying, attending PGM meetings, and practicing and playing in tournaments at our partner courses.



High school students receive instruction on proper golf club grips at the first ever Nike Golf Camp in Lincoln.

Speaking of partner courses, as our program grows, so does the list of courses at which our PGM students can play as part of their PGM fees. That list now includes Wilderness Ridge Golf Course (the primary course for the PGM program), Hillcrest Country Club, Yankee Hill Country Club, Woodland Hills Golf Course, Crooked Creek Golf Club, Firethorn Golf Club, and Lincoln City Golf Course Operations (Jim Ager, Highlands, Holmes, Mahoney and Pioneers).

In a few months we will have a new PGM Golf Simulation Lab. Two state-of-the-art simulators will be installed in the building across from the PGM offices. Not only will this be helpful (and fun!) for our current PGM students, but will be a great recruiting tool as well. Also, Wilderness Ridge has added to its facilities; our students will have access to its nine heated hitting bays and an indoor putting and chipping green – just in time for the cooler weather!

PGM staff worked with Wilderness Ridge professionals to put on the first Sports Camp, Inc. (Nike) Golf Camp ever held in Lincoln. It was a huge success, with 35 high school students attending the week-long camp July 18-22. We see this as another valuable recruiting tool; several of the more experienced campers indicated they plan to come to UNL for the PGM program after high school graduation.

Figure 10: CGS Article 5 (Murray, 2005a)



2006

## Center for Grassland Studies

Winter 2006

burning of the prairie and use of herbicides in the right-of-way line will have unknown impacts.

Herbicides and fertilizers can also leach or run off from lawns, parks and golf courses and have impacts miles from their source. Erosion and sediment control, while mandated by the federal, state and municipal agencies, still impacts acres of natural and man-made wetlands. An untold and unexamined result of mass grading and then individual site construction is the complete destruction of an integrated soil profile. Tough native bunch grasses struggle to grow or expand on such a compacted, depleted soil.

Perhaps the most difficult to pin down is the loss of meaning that accompanies adjacent development next to our dwindling prairies and expanding park space. Because grasses and grasslands are communities that occupy the ground plane, our experience of them is strongly affected by neighboring activities. The Saltillo Savanna has its views controlled by woodland, but Nine-Mile Prairie will soon be festooned with 115-foot mega towers that belie that prairie's sense of naturalness.

Grasslands are an integral part of most natural areas, but are just as vulnerable to direct and indirect development pressures. Proper management of grasslands, therefore, should take their unique structure, function and change into consideration as they are developed, modified or completely removed.

*Editor's Note:* Sutton is a registered landscape architect in Nebraska and has done landscape ecological research and planned natural areas. Nine-Mile Prairie, a focus of the above article, is so named because it is approximately nine miles northwest of downtown Lincoln. Details about the prairie can be found at [snrs.unl.edu/wedin/niefiel/sites/NineMile/nine\\_mile\\_prairie.htm](http://snrs.unl.edu/wedin/niefiel/sites/NineMile/nine_mile_prairie.htm).

## New Prairie Grasses to Fatten Beef Cattle

Two new varieties of big bluestem prairie grass could boost beef cattle weight by as much as 50 pounds per head, according to Agricultural Research Service (ARS) and collaborating university scientists.

The beef weight gains come from grazing trials in eastern Nebraska that compared the new releases—named “Bonanza” and “Goldmine”—to the Pawnee and Kaw varieties. The latter two cultivars have been the leading big bluestems in the Central Plains and Midwest for more than 40 years, a reign stemming from their broad adaptability to the regions’ diverse growing conditions.

Such adaptability is especially important on marginal cropland used for cow-calf operations where the animals draw nutrients from forage rather than grains, notes Ken Vogel, who leads ARS’ Wheat, Sorghum and Forage Research Unit in Lincoln, Neb.

Pawnee and Kaw, however, were never specifically bred with forage quality in mind, according to Vogel, a supervisory plant geneticist. Goldmine and Bonanza offer the best of both worlds, combining adaptability with improved forage quality. Vogel began breeding the big bluestems in 1977, and recently field-tested them in collaboration with ARS Lincoln rangeland scientist Robert Mitchell and University of Nebraska-Lincoln

researchers Terry Klopfenstein (ruminant nutritionist) and Bruce Anderson (forage specialist).

In pasture trials from 2000 to 2002, cattle that grazed the new big bluestems gained 18 to 50 pounds more per acre than those that grazed Pawnee and Kaw. The researchers estimate these gains could mean net-profit increases of \$15 to more than \$35 per acre a year for beef producers. On marginal cropland, yearling steers that grazed pastures of Goldmine and Bonanza generated net profits of up to \$119 per acre. That’s 2.4 times more profit than the producer would have earned from growing corn on the same land during the same years, according to the researchers’ estimates.

Certified seed of Goldmine and Bonanza will become available in 2006.

*Source:* Nov. 18, 2005 USDA press release by Jan Suszkiw, online at [www.ars.usda.gov/is/pr/2005/051108.htm](http://www.ars.usda.gov/is/pr/2005/051108.htm).

*Editor's Note:* Vogel, Mitchell, Klopfenstein and Anderson are CGS Associates.

## Nike Golf Camp in Lincoln This July

The second annual five-day Nike Junior Resident Golf Camp will be held in Lincoln July 17-21, 2006. Scott Holly, Coordinator of the UNL Professional Golf Management (PGM) program, is camp director. Helping with the camp will be PGM Director, Terry Riordan, Greg Johannesen, and Mike Schuchart and Jim White, who are PGA teaching pros at Wilderness Ridge Golf Club, the home course of the UNL PGM program. Girls and boys 14 to 18 years of age with some golfing ability are qualified to participate. Cost is \$745 for “resident” and \$645 for “extended day” (9:00 AM to 9:00 PM). For more information and to register, go to the PGM Web site ([pgm.unl.edu](http://pgm.unl.edu)) and click on the Nike Junior Golf Camp link. If you have questions, contact Holly at [sholly2@unl.edu](mailto:sholly2@unl.edu), 402-472-7467.



PGA teaching professional Mike Schuchart helped 2005 Nike Golf Camp participants improve their game.

Figure 11: CGS Article 6 (Murray, 2006a)

## UNL Professional Golf Management Program Scores a First

While most students were either home visiting friends and family or hitting the ski slopes or beaches during spring break, 19 PGM students were taking tests administered by PGA professionals here on campus. On the first Saturday and Sunday of the break from classes, these students, who are in their second year of the PGA-accredited PGM program administered by the CGS, were either sitting in a classroom taking written tests over topics such as the PGA constitution, rules of golf, golf car fleet management, career enhancement, tournament operations, teaching the game and golfer development, or they were in a lab setting demonstrating their ability to use equipment to measure lie and loft or swing weight of a club. While students may continue to take their academic courses regardless of their performance at the *checkpoints* (to use the PGA terminology), they must pass all segments of each checkpoint (there are a total of three checkpoints) in order to proceed to the next level of the PGA/PGM™ program.

How did they do in this first checkpoint ever held in Lincoln? For the first time in any PGA/PGM™ program – at a university or at the PGA testing center in Florida – 100 percent of those who attempted a checkpoint passed.

“This is unprecedented,” said Terrance Riordan, director of the UNL PGM program. “We knew our students had the potential, but to accomplish this really shows how hard our students work.”

Normally, 20% to 50% of students fail at least one or more of the series of eight tests in Checkpoint 1 and must retake it at another time and place. In addition, “the PGA said that new programs should expect a 50% failure rate,” Riordan said. “The



PGA staff and students pose for a celebratory photo after 100% of the students who took Checkpoint 1 passed it. Back row, left: Scott Holly (PGM Coordinator), Joseph Hanco (visiting student from another PGM program), John Butler, Brandon McDermott, Brett Morgan, Greg Spence, Mike Stuntz, Chris Wise, Nick Muller, Brad Thorberg. Middle row: Terry Riordan (PGM Director), Jason Harrell, Josh White, Tyler Rolf, Todd Schafersman, Brad Cloke, Zach Wetovick, Tara Pawling (PGM Administrative Assistant). Front row: Mike Booth, Tyler Bolin, Eliot Mays, Nathan Kalin, Jared Kalin.

PGA staff was very impressed with the performance and the professionalism of our students,” he said.

Since all 19 students passed, they all attended the seminars presented by the PGA professionals on the third and fourth day. Only then did they start their spring break, for which they were more than ready!

Figure 12: CGS Article 7 (Murray, 2006b)



2007

## PGM Students Hit the 100 Mark

No, that's not a golf score; it is the number of Professional Golf Management students in the program as of January 2007. The eight students who transferred into the program for spring semester pushed the number to the century mark, which far exceeds original projections for this, the third year of the program. For more information on the PGA/PGM™ program, see [pgm.unl.edu](http://pgm.unl.edu).





Figure 13: CGS Article 8 (Murray, 2007b)


Spring 2007
Center for Grassland Studies

### 2007 Nike Golf Camp in Lincoln This July

The third annual five-day Nike Junior Resident Golf Camp will be held in Lincoln July 16-20. Scott Holly, Coordinator of the UNL Professional Golf Management (PGM) program, is camp director. Helping with instruction will be three PGA pros at Wilderness Ridge Golf Club, the home course of the UNL PGM program and host site for the camp. Girls and boys 14 to 18 years of age with some golfing ability are qualified to participate. Cost is \$765 for "resident" (campers stay in a dorm on the UNL campus and are



Students learn proper swing techniques from PGA professionals who work with the campers.



PGM Coordinator Scott Holly demonstrates the pendulum motion of putting at summer golf camp.

supervised by staff) and \$665 for "extended day" (morning through evening). The daily schedule consists of breakfast, instruction in the morning (putting, chipping, bunker play, full swing), lunch, course play with staff in the afternoon, dinner, and an evening fun activity. For more information and to register, go to the PGM web site ([pgm.unl.edu](http://pgm.unl.edu)) and click on the Nike Junior Golf Camp link. If you have questions, contact Holly at [sholly2@unl.edu](mailto:sholly2@unl.edu), 402-472-7467.

Figure 14: CGS Article 9 (Murray, 2007a)

2008

Spring 2008

Center for Grassland Studies

## Professional Golf Management Highlights

In December three students received the first bachelor's degrees in Professional Golf Management awarded at UNL. A few more PGM students will graduate in May.

As the program builds, students are securing great internships at excellent facilities, including Carnoustie (we had an intern there when it hosted the 2007 British Open), The Broadmoor, Pinehurst, Chicago Golf Club, TCP Sawgrass, Medina, Oakmont, Congressional, and Castle Pines – to name a few.

For the second time in three years of testing, 100% of our students who attempted a PGA Checkpoint passed that Checkpoint. A Checkpoint consists of several tests conducted by PGA professionals who come to campus to administer those tests. PGM students must pass three Checkpoints before graduation. In March 2008, all 28 students who participated in Checkpoint 2 passed it. Two years ago, all of our students who attempted Checkpoint 1 (the first Checkpoint ever held at UNL for the new PGM program) were the very first in the nation to have 100% of those attempting a Checkpoint pass it. We work very hard to provide a supportive environment that gives our students every opportunity to be successful, and it looks like the students are making the most of that opportunity!



Master PGA professional Jim White works with a 2007 camper on proper form. White, Director of Golf Operations at Wilderness Ridge Golf Club, is also one of the teaching pros who works with the UNL PGM students.

## 2008 Nike Golf Camp in Lincoln This July

The fourth annual five-day Nike Junior Resident Golf Camp will be held in Lincoln July 21-25, 2008. Scott Holly, a PGA professional and coordinator of the UNL Professional Golf Management (PGM) program, is camp director. Helping with instruction will be three PGA pros at Wilderness Ridge Golf Club, the home course of the UNL PGM program and host site for the camp. Girls and boys 14 to 18 years of age with some golfing ability are qualified to participate. Cost is \$799 for "resident" (campers stay in a dorm on the UNL campus and are supervised by staff) and \$699 for "extended day" (morning through evening).

The daily schedule consists of breakfast, instruction in the morning (putting, chipping, bunker play, full swing), lunch, course play with staff in the afternoon, dinner, and an evening fun activity.

For more information and to register, go to the PGM Web site ([pgm.unl.edu](http://pgm.unl.edu)) and click on the Nike Junior Golf Camp link. If you have questions, contact Holly at [sholly2@unl.edu](mailto:sholly2@unl.edu), 402-472-7467.



PGM Coordinator Scott Holly demonstrates to a camper the proper way to play out of a bunker.

Figure 15: CGS Article 10 (Murray, 2008a)

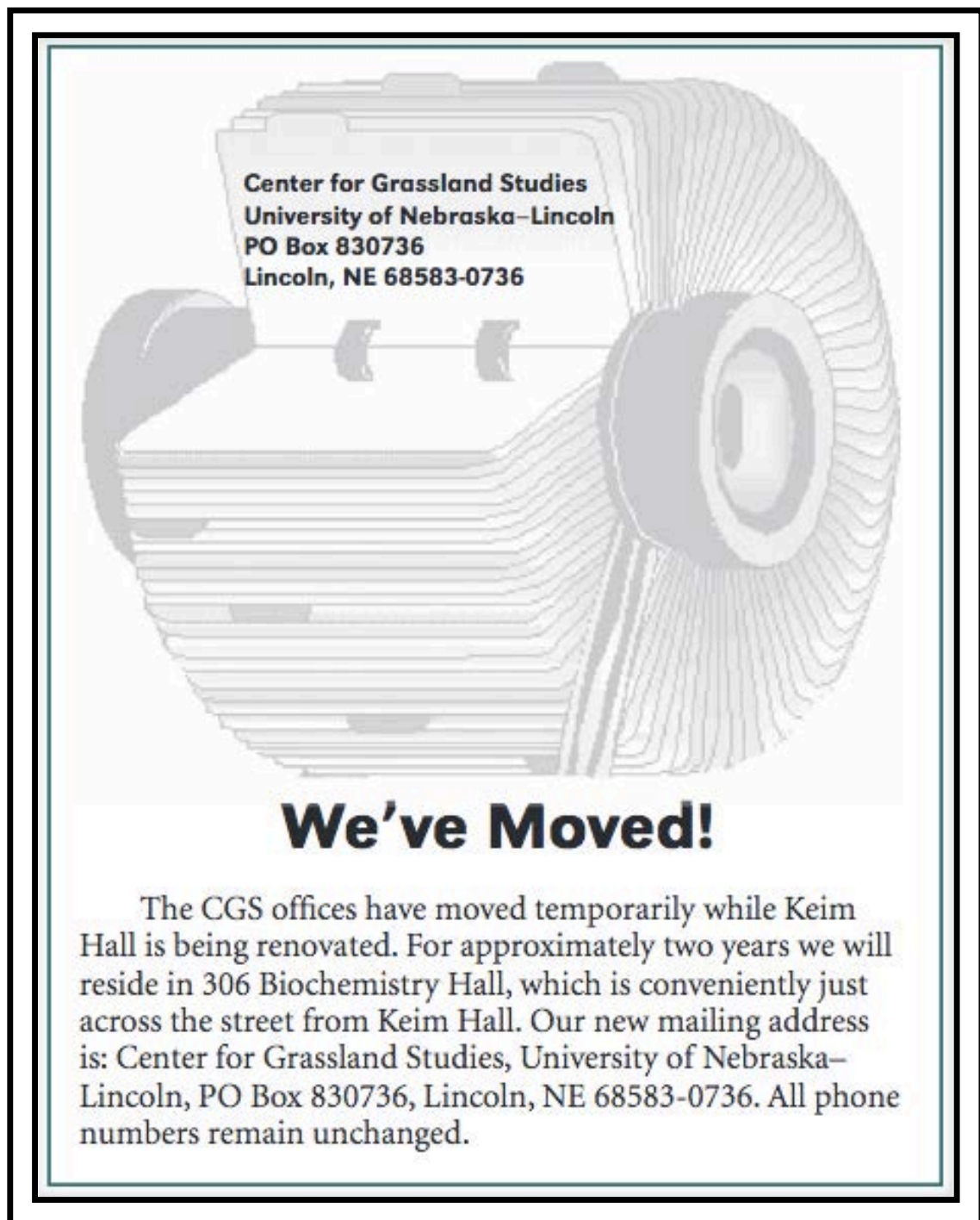


Figure 16: CGS Article 11 (Murray, 2008b)



2009

Winter-Spring 2009

Center for Grassland Studies

## 2009 Nike Golf Camp in Lincoln This July

The fifth annual five-day Nike Junior Resident Golf Camp will be held in Lincoln July 27-31, 2009. Scott Holly, a PGA professional and internship coordinator of the UNL PGA Golf Management (PGM) program, is camp director. Helping with instruction will be three PGA pros at Wilderness Ridge Golf Club, the home course of the UNL PGM program and host site for the camp.

Girls and boys 14 to 18 years of age with some golfing ability are qualified to participate. Cost is \$845 for "resident" (campers stay in a dorm on the UNL campus and are supervised by staff) and \$745 for "extended day" (morning through evening).

The daily schedule consists of breakfast, instruction in the morning (putting, chipping, bunker play, full swing), lunch, course play with staff in the afternoon, dinner, and an evening fun activity.

Now what was it the instructor said about lining up a putt?

For more information and to register, go to the PGM Web site ([pgm.unl.edu](http://pgm.unl.edu)) and click on the Nike Junior Golf Camp link. If you have questions, contact Holly at [sholly2@unl.edu](mailto:sholly2@unl.edu), 402-472-7467.



Golf teacher extraordinaire Mike Schuchart works with a camper on proper swing technique.

Speaking of Holly, we're happy to report that our colleague placed second in the Nebraska PGA Professional Golf Championship held at Wilderness Ridge last year. Scott was tied for first after regulation play in the two-day tournament before succumbing to former PGA Tour pro Mike Schuchart in the play-off. Finishing third was director of golf at Wilderness Ridge, Jim White. Schuchart and White are two of the pros who provide instruction at the Nike camp. Their tournament finishes qualified Holly,

Schuchart and White for the 2009 PGA Professional National Championship this June in Albuquerque. We wish them all luck!

And if that isn't enough, Holly can add three other items

to the list of recent accomplishments: 1) PGA certification in General Management; 2) Education Award for superior work from the Nebraska Section of the PGA; and 3) MBA degree from UNL.

(There was a milestone birthday in the mix, but we won't mention that!)



Is all this sand supposed to fly up like that?



Campers couldn't ask for a better setting in which to perfect their game than Wilderness Ridge Golf Club.



Students in the 2008 Nike Camp learn how to properly shoot their way out of a bunker.

Figure 17: CGS Article 12 (Murray, 2009a)

**Center for Grassland Studies**
**Summer 2009**

## Lots Happening with PGA Golf Management University Program

From the title of this article, you may have already figured out the first “happening,” which is that the program has a new name. The Professional Golfers’ Association of America recently changed the official name of its accredited program from Professional Golf Management to PGA Golf Management University Program, of which there are currently 20 in the country.

We bid a fond farewell to our fearless leader, Dr. Terry Riordan, who helped establish the program in the early years of this decade and served as the first PGM Director. Terry officially retires in July, but will be helping out during the fall semester on a contractual basis as we transition to new leadership.

We welcome the new Director, Dr. Alan Baquet (pronounced BAYquit). Alan’s educational background is in business. He has held professorial and administrative positions at Oklahoma State University, Montana State University, and since 1998, UNL. He is an avid golfer, and is very excited to have the opportunity to build on the great foundation that has been laid with this program.

In the previous issue of this newsletter, you read about some of the accomplishments of our Internship Coordinator, Scott Holly, which included PGA certification in

general management, an education award for superior work from the Nebraska Section of the PGA, completion of an MBA degree, and a tournament finish in the 2008 Nebraska PGA Professional Golf Championship that qualified him to play in the 2009 PGA Professional National Championship this June in Albuquerque. To top it off, he and his wife, Amy, welcome into the world their second child in July.

And congratulations to Tara Lea, our Educational Specialist, who just received her Master of Science in Leadership Education, with a minor in Teaching, Learning and Teacher Education.

All three PGM staff members were recognized at the College of Agricultural Sciences and Natural Resources Spring Banquet. Terry received the North American Colleges and Teachers of Agriculture Teaching Award of Merit. Tara and Scott were both nominated for Outstanding Staff Member, and Tara for Outstanding Teacher. Various PGM students were also recognized.

We’re looking forward to an exciting year as we help approximately 170 students toward their goals of graduating with their degree in PGA Golf Management and beginning their careers as PGA professionals!



**Terry Riordan**



**Scott Holly**



**Alan Baquet**



**Tara Lea**

Figure 18: CGS Article 13 (Murray, 2009b)


2010

**Fall 2010**
**Center for Grassland Studies**

## Nothing Is Constant but Change Itself

Change seems to be the “constant” these days, and the Center for Grassland Studies has seen its share during the last two years. In the summer of 2008, we moved to temporary quarters while Keim Hall was completely renovated. In July of this year we happily moved back into what looked and felt like a brand new building with enhanced teaching and work facilities. Based on the reactions of prospective students when they make a campus visit, we think the new space enhances our recruitment efforts for the Grazing Livestock Systems (GRLS) and PGA Golf Management (PGAM) majors. The specially equipped spaces for PGAM students contribute to our having one of the premiere PGA Golf Management programs in the country (there are 20 such programs accredited by the PGA).

In the summer of 2009, we had a transition from Dr. Terry Riordan, who retired, to Dr. Alan Baquet as the Director of the PGA Golf Management program. This summer we had another retirement. Since the Center for Grassland Studies was formed in 1994, Jan Shamburg provided secretarial support for the CGS Director and other personnel in the Center. With mixed emotions, we bade Jan a fond farewell in late August. We are happy that she now has time to travel and do things she could not do while working full time, but we miss seeing her smiling face as we come in each morning. We are fortunate, however, to be greeted



**Jan Shamburg**



**Pamela Wealand**

daily by another smiling face – that of Pamela Wealand. (Yes, out of three females in our small unit, two have the name of Pam, but since Pam Murray has seniority – 35 years at UNL – our new hire agreed to be called Pamela!) Pamela, who has lived in Lincoln previously, moved back here with her family in August from St. Louis. If you call our office, please welcome Pamela back to Nebraska!

Figure 19: CGS Article 14 (Murray, 2010)



2011

Center for Grassland Studies
Summer 2011

## Advisory Council Tour In Southeast Nebraska

Every other year the CGS hosts a tour somewhere in the state for its Citizens Advisory Council and Associates that features turf management and land management for both grazing operations and wildlife habitat. The event was held on June 22 this year, beginning at ArborLinks in Nebraska City, where we heard about the conservation-minded management of the Arnold Palmer Signature Design golf course and the service orientation of the entire operation. We even got to hear from "one of our own," as PGA Golf Management graduate Gil Russell talked about how the major prepared him for his Assistant Professional position at ArborLinks.

After lunch we headed to fields in Johnson County to see how Natural Resources Conservation Service personnel are working with agricultural producers on development of their grazing systems. The Johnson County Extension Office is another resource for area producers, and we heard from two of them who described the sustainable methods they use in their farming operations. At the last stop near Burchard Lake, we learned about some patch-burn grazing studies being conducted in that area in cooperation with the Wildlife Division of the Nebraska Game and Parks Commission.



**Rod Christen (fourth from left), former winner of a Leopold Conservation Award, and Paul Rohrbaugh (not in picture) shared their philosophies and management practices with the tour group.**



**Citizens Advisory Council member Ray Ward, founder of Ward Laboratories in Kearney, grabbed the shovel out of his truck so he and Craig Derickson, NRCS state conservationist, could check the soil at one of the tour stops. They determined it was good for carbon sequestration.**

Advisory Council member Bill Bieck, superintendent of Heritage Hills Golf Course in McCook, shared these comments about the tour in an e-mail to us.

"I do enjoy this group and its diversity of members and topics. I probably learn more from those outside my own area of expertise, and then try to apply those principles to my profession. I especially enjoyed the topic on patch burning. I also appreciated the comments of the two small private ranchers near Steinauer. That is what I enjoy so much about these tours... we usually visit with a 'grassroots' producer on their 'turf' – not a PowerPoint presentation! It was interesting to hear the passion in their voices for what they do, comments about their involvement in a local range management group, and the need to change management practices, when appropriate, rather than using the same practices just because it is what has been done for the last 30 years. I can say the same thing about my profession... everything evolves through time and we must be willing to change as well!"



**ArborLinks superintendent Ryan Krings talked about how they manage first the greens, then a nearby area on which they use prescribed fire for the lush yet natural look.**



**NRCS personnel (third from left) Craig Derickson, Roger Reichmuth, Anna Ferguson and Justin Linder, discussed their work with a local producer to develop land management and grazing system regimes.**

Figure 20: CGS Article 15 (Murray, 2011)



2012

Fall 2012
NEBRASKA  
Lincoln

## Meet Two of Our Students

The Center coordinates two undergraduate majors: Grazing Livestock Systems and PGA Golf Management. Below are excerpts from articles that were composed for inclusion in recent recruitment newsletters. We thought you would enjoy reading them.

**Nick Sage, Senior and Teaching Assistant in PGA Golf Management**

**On internships:**

I have had the great fortune to be able to work at some of the best golf courses in the country. My first internship was at Interlachen Country Club in Edina, MN. Last summer I was at Hazeltine National Golf Club in Chaska, MN, and I spent this summer at Pebble Beach Golf Links in CA. Working at Pebble Beach was truly a dream come true. You watch Pebble on TV and you don't think any of it is real, and then you actually see it, then play it. Responsibilities included providing world-class service to the guests, working in the golf shop, and helping out in every area of the golf operation including tournaments, practice facility management, golf car management, starting groups on the first tee, as well as doing extra events like night golf and putting contests for corporate groups.

**On being a Teaching Assistant:**

In August, 2011 I was hired to be the Teaching Assistant for the PGA Golf Management program. I assist with the PGAM classes as well as tournaments. Now that I am a senior, I feel my

role includes being more like a mentor to the younger students because I have been in their shoes and I can give them advice on internships and classes. I also have the role as Assistant Tournament Director. This is one of my favorite things because I get the chance to make custom calligraphy scoreboards as well as scorecards for the tournaments. We have about 15 tournaments each semester, which is a great opportunity to showcase your golf game as well as get to know the other students.

**On getting involved:**

When I was a freshman at UNL, I got involved by volunteering for golf events for the program. We have so many opportunities to volunteer for events like the Special Olympics as well as Nebraska PGA events. The way I got really involved was getting out and meeting people. It sounds cliché, but that is what you have to do in college. I wanted to meet as many people as I could; the more I got to know the upper classmen in the program, the more I felt comfortable volunteering and doing extra things for the program. This eventually led me into the TA job.

**What I have learned:**

I have learned so much at UNL. One of the best decisions of my life was to attend UNL and major in PGA Golf Management. UNL has given me the opportunity to work at some of the best golf courses in the world. I have met some of my best friends here and made lifelong connections. I have learned not to be afraid, and to get out of my comfort zone and try new things.

*(continued on page 3)*



**Nick Sage poses for a photo during his Summer 2012 PGA Golf Management internship at Pebble Beach Golf Links.**

Figure 21: CGS Article 16 (Murray, 2012)

2013

### PGA Golf Management Honors and Other News

UNL PGA Golf Management (PGM) personnel, alumni and current students have been in the news lately.

At the March 4, 2013 Nebraska Section PGA meeting, several people associated with our program were honored. Internship Coordinator **Scott Holly** received the Horton Smith Education Award. **Jim White** was recognized as the Senior Player of the Year and **Greg Johannesen** as the Teacher of the Year; both of them work with our Player Development Program. **Gil Russell** (class of 2011), who has worked at ArborLinks in Nebraska City since his graduation, was honored as the Assistant Professional of the Year.

In February, Callaway Golf announced the ten members of the X Hot Long Drive Team, including our current student **Andrew Frakes**. The ten long drive professionals will join RE/MAX World Long Drive Champions Jamie Sadlowski, Joe Miller and Bobby Wilson as Callaway Ambassadors — playing and promoting Callaway products around the country.

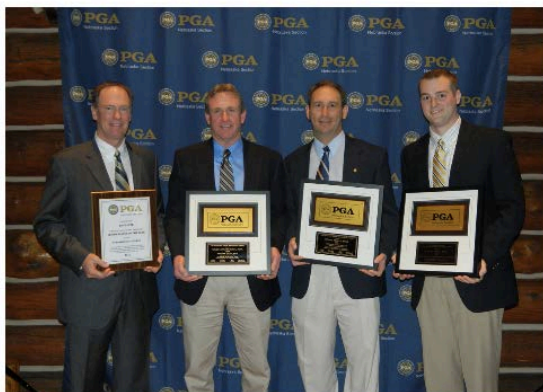
In recognition of how sales have increased in his territory, **Kevin Moberg** (class of 2008) recently received the Rising Star award from TaylorMade Golf.

Four UNL PGM alumni have recently come home to roost. Two came from their most recent positions at Kansas City Country Club; **Maureen Farrell** (class of 2009) is now the Head Professional at Wilderness Ridge Golf Club (our program's primary golf course), and **Nick Muller** (class of 2007), is the

new Director of Golf at the Country Club of Lincoln. Also coming from a neighboring state is **Nathan Munford** (class of 2011), who recently left Manhattan Country Club to accept the position of Head Golf Professional at Platteview Country Club in Bellevue. After a few years in Florida as Player Development Coordinator for The PGA of America, **Joe Canny** (class of 2010) came back to Lincoln to be the Nebraska Junior Golf Tour Director and Player Development Coordinator for the Nebraska Section PGA.

For the second year in a row, PGA Golf Management Director **Alan Baquet**

was honored as one of the recipients of a UNL Parents Association award for those who have made a significant difference in their students' lives.



From left: PGA Professionals Jim White, Greg Johannesen, Scott Holly and Gil Russell received awards at the 2013 Nebraska Section PGA meeting.

Figure 22: CGS Article 17 (Murray, 2013b)




### PGM Students Give Back

In one weekend in April, PGA Golf Management (PGM) students "gave back" to both the University of Nebraska-Lincoln and the community.


On Saturday, April 20, several members of the PGM Student Club partnered with Wilderness Ridge Golf Course to bring smiles to many participants in a "Special

The Spring Scramble was held the following day. The PGM Student Club organizes this annual tournament to raise funds for PGM scholarships. This year we had 21 foursomes participate. Club members did a great job of lining up players, sponsors and prizes.


On an individual basis, PGM senior Andrew Frakes is using his long-drive ability to raise funds for charities, including Families for Effective Autism Treatment. In the previous issue of this newsletter we mentioned that Andrew had been selected as one of ten members of the Callaway Golf X Hot Long Drive Team. In addition to playing and promoting Callaway products around the country this summer, he has been training to break the Guinness Book of World Records for the number of 300-yard or better golf drives in an hour. Read more about Andrew's attempt, which will take place August 7 in Texas, at <http://www.frakesmethod.com/#!worldrecordevent/c1oz1>.



**As a fundraiser, on August 7 PGM student Andrew Frakes will attempt a world record for most 300-yard drives in an hour.**



**PGM Student Club president Nick Sage must be thinking: "Funny... they didn't mention this during my recruiting visit!"**



**PGM students help "Special Olympics" kids try to hit balls into the mouth of Golfzilla.**

olympics" event. Despite the chilly weather, all had lots of fun trying to hit golf balls either into the mouth of Golfzilla, or at PGM student Nick Sage in his velcroed "Snag Ball" costume (well... all had fun but Nick, who probably wouldn't volunteer for that duty again especially after the golfers started throwing rather than hitting the balls at him!).

Figure 23: CGS Article 18 (Murray, 2013c)

**Fall 2013**
**Center for Grassland Studies**

### Terry Klopfenstein Recognized as BEEF Top 50

On the occasion of the start of BEEF magazine's 50th year of publication, the BEEF 50 project was initiated in early 2013 to formally recognize 50 industry leaders who had been instrumental in the direction and development of the U.S. beef industry. BEEF asked readers to submit profiles of their industry heroes and mentors, and then submitted those nominations to an independent panel of judges who were long-time contributors to the U.S. beef industry and representative of all production sectors. As the magazine states: "The final 50 make for an interesting glimpse into the history, drive and resourcefulness of those who built, and are engaged in, this vital industry."



**Terry Klopfenstein speaks during the Fall 2012 CGS Citizens Advisory Council tour of the Agricultural Research and Development Center.**

Our very own Terry Klopfenstein was among those distinguished top 50. He is an internationally recognized authority in beef cattle nutrition and the first to develop beef cattle diets using

### Golf Student Breaks Guinness World Record!

In the last issue of this newsletter we told you about our PGA Golf Management student, Andrew Frakes, who had been training to compete in the 2013 RE/MAX World Long Drive Championship and also to break the Guinness Book of World Records for the number of 300-yard or better golf drives in an hour. While he didn't reach the goal of winning the long drive competition, on August 7 in McKinney, TX he not only broke the world record, he smashed it to smithereens! In fact, he broke the record of 272 only 31 minutes into the attempt. Andrew's record of 448 will likely stand for a long time... or at least until he attempts to break his own record, which he plans to try in the near future. But Andrew didn't do all of that hard work just to break a record; he did it as a fundraiser for two charities that are near and dear to his heart. The event raised more than \$20,000 for Families for Effective Autism Treatment and Spay It Forward Texas. That makes Andrew a winner in our eyes! To see video of Andrew breaking the world record, go to [www.frakesmethod.com](http://www.frakesmethod.com).



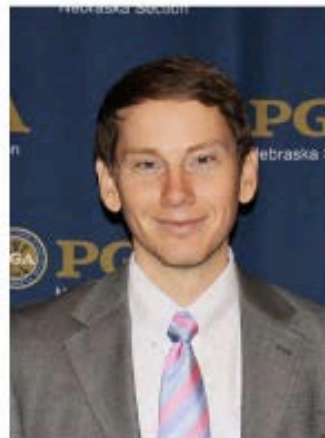
**With his brother, Brandon, teeing up the balls and monitoring his heart rate, PGA Golf Management student Andrew Frakes hits one of the more than 600 balls in his attempt to break the world record for most balls hit 300 yards or longer in an hour. Old record: 272. New record: 448. Money raised for charities: \$20,000. Experience: Priceless!**

Figure 24: CGS Article 19 (Murray, 2013a)

2014

## PGA Golf Management Alumni Earn Awards

Alumni of the UNL PGA Golf Management program continue to make us proud! At the March 3, 2014 Nebraska Section PGA meeting, Joe Canny (class of 2009), Nebraska Junior Golf Tour Director



**Joe Canny**



**Carly Froehlich Ulrich**

and Player Development Coordinator for the Nebraska Section PGA, received the 2013 Youth Player Development Award, and Carly Froehlich Ulrich (class of 2009), Merchandise Director for Omaha Country Club, won the 2013 Merchandiser of the Year — Private Category.

On the same date, Derrick Vest (class of 2010), Assistant Professional at Southern Hills Country Club in Tulsa, OK, was awarded the 2013 Assistant Golf Professional of the Year Award by the South Central Section PGA.

Figure 25: CGS Article 20 (Murray, 2014)

2015

Winter-Spring 2015
Center for Grassland Studies

### Associate Dean to be New PGA Golf Management Director

It's not that we don't like the old one, but Dr. Alan Baquet, PGA Golf Management (PGM) Director since July 2009, is retiring from UNL June 30. We thank Alan for his excellent leadership and wish him well as he begins the next chapter of his life!

We welcome the new director, Dr. Dann Husmann, who will be coming to the Center for Grassland Studies from his split appointment as Associate Dean of the College of Agricultural Sciences and Natural Resources (CASNR – the college in which the PGM program resides) and professor in the Department of Agricultural Leadership, Education and Communication. Before joining the UNL faculty in 2000, Dann taught at the high school level (where he was an assistant golf coach) and had positions at the University of Wisconsin-Madison and South Dakota State University. In recognition of his commitment to education and his innovation in utilizing technological integration and engagement in the classroom to prepare college students to be high school teachers, Dann was honored with the Holling Family Senior Faculty Teaching Excellence Award at a banquet on March 3, 2015.

The inaugural PGM director, Dr. Terry Riordan, had a wealth of knowledge on the game of golf (having played at the college level) and turf science (he taught and conducted research on turfgrasses and consulted with golf courses on turf selection and management issues). Alan's expertise included economics and busi-




**Dr. Alan Baquet**

**Dr. Dann Husmann**

ness as well as administration; he was also a certified life coach. In addition to teaching and advising high school and college students, Dann has experience in coaching golf, CASNR administration, leadership, educational methods, curriculum development and instructional improvement. The PGA Golf Management program has and will continue to benefit from what each director has and will "bring to the table."

Figure 26: CGS Article 21 (Murray, 2015b)



## A Year in the Life of a PGA Golf Management Alumnus as His Club Prepares to Host Ryder Cup: Part 1

*Editor's Note: Nick Sage from Bloomington, MN, graduated from the UNL PGA Golf Management Program in December 2013. He is now the Assistant Golf Professional at Hazeltine National Golf Club in Chaska, MN, site of the 2016 Ryder Cup matches. We thought it would be fun to follow Nick through the year as Hazeltine prepares to host this prestigious international event. Below is his first installment.*

My name is Nick Sage and I am a Class A PGA Professional at Hazeltine National Golf Club in Chaska, MN. My time at Nebraska was memorable for more than Husker football; I was fortunate to be a Teaching Assistant for two years, serve as the PGA Golf Management Student Club President, and represent the Nebraska program at the annual PGA Golf Management University Program Leadership Session in Port St. Lucie, FL. I was also able to intern at four of the top 100 golf facilities in the country: Interlachen Country Club in Edina, MN; Hazeltine National; Pebble Beach Golf Links in Pebble Beach, CA; and Aronimink Golf Club in Newtown Square, PA. After I graduated, I spent a winter in Florida at Jupiter Hills Club, after which I was lucky enough to be hired back by Hazeltine, where I have been ever since.

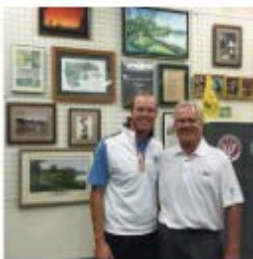
Hazeltine National Golf Club opened for play in 1962. It was founded by former USGA President, Totton P. Heffelfinger and famed golf course architect, Robert Trent Jones. Heffelfinger wanted to build a golf course suitable for national championships and hired Jones to design the golf course. Hazeltine National has a very rich history of hosting national championships and the membership supports that mission. It has been the site of: 1966 and 1977 U.S. Women's Open, 1970 and 1991 U.S. Open, 1983 U.S. Senior Open, 1994 USGA Mid-Amateur Championship, 1999 NCAA Championships, 2001 USGA State Team Championship, 2006 U.S. Amateur Championship, and the 2002 and 2009 PGA Championship. After Hazeltine hosts the 2016 Ryder Cup matches, only one other golf course in the country will have hosted every major USGA and PGA championship, and that is Pinehurst #2.

In spite of that rich history, Hazeltine did not have a room dedicated to telling its story. The upcoming Ryder Cup provided the incentive to change that. The previous championships held at Hazeltine have been big, but nothing will compare to the exposure provided by this international event. The Super Bowl has about 100 million television viewers; the Ryder Cup has about 800 million viewers worldwide. The Ryder Cup will likely be the biggest event the state of Minnesota will ever host. So, in the winter of 2014, I was given the task of organizing an archive room, which is now known as the Hazeltine National Golf Club Heritage Collection. I logged more than 400 hours archiving, scanning and preserving Hazeltine's finest memorabilia. The Hazeltine Heritage Collection has had many visitors in its short existence including Mark Roling of NBC Sports, Davis Love III, 2016 U.S. Ryder Cup captain, Darren Clarke, 2016 European Ryder Cup Captain, and Tony Jacklin, 1970 U.S. Open Champion as well as one of the most successful European Ryder Cup players and captains ever to play. Organizing the Heritage Collection is one of the highlights in my short career in the golf business. (See photos accompanying this article that were taken in the Heritage Collection room.)

During the last weekend in September, the PGA of America, which runs the Ryder Cup, hosted its "Year-Out" celebration. Both captains as well as the entire PGA of America staff and European Ryder Cup staff were at Hazeltine. There were several press conferences and interviews with both captains. The weekend was capped off with a night in downtown Minneapolis called "Ryder Cup: Year Out, a Night with the Captains." Both captains were on stage with Golf Channel personality David Feherty who interviewed both captains, providing a preview of what is to come next year at Hazeltine.

The UNL PGA Golf Management Program prepared me to be an asset to a club like Hazeltine National Golf Club as it gets ready to host the biggest golf event in the world. It is an honor to be part of a club that prides itself on its rich history.

Nick Sage with Tony Jacklin, former European Ryder Cup captain who, Sage commented, "essentially changed the game for the European team in the 80s."



Nick Sage and Mark Roling, broadcaster for golf tournaments on NBC and referred to as "Mr. Ryder Cup."



Nick Sage is interviewed by European Tour Productions.

Figure 27: CGS Article 22 (Murray, 2015a)

2016



Figure 28: CGS Article 23 (Murray, 2016d)

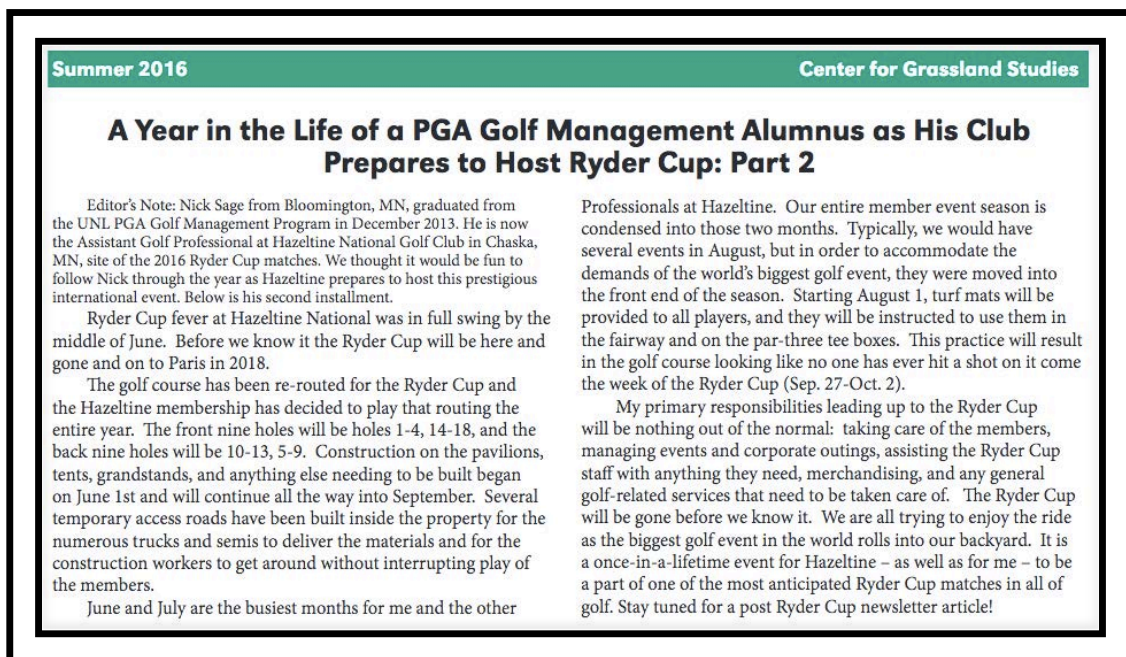


Figure 29: CGS Article 24 (Murray, 2016a)



## A Year in the Life of a PGA Golf Management Alumnus at His Club that Hosted Ryder Cup: Part 3

*Editor's Note: Nick Sage from Bloomington, MN, graduated from the University of Nebraska-Lincoln PGA Golf Management Program in December 2013. He is now an Assistant Golf Professional at Hazeltine National Golf Club in Chaska, MN, site of the 2016 Ryder Cup matches. We thought it would be fun to follow Nick through the year as Hazeltine prepared and then hosted this prestigious international event. Below is his third and final installment submitted shortly after the conclusion of the Ryder Cup.*

I remember vividly when I interviewed with Chandler Withington, PGA Head Professional at Hazeltine, about a job at Hazeltine National Golf Club. When he offered me the job in the fall of 2013, he asked me if I was ready to be a part of something special. All of my expectations were exceeded, and the week of the 2016 Ryder Cup was one of the most incredible of my life. I was indeed a part of something special, and it is a memory I will have for the rest of my life.

There was so much buildup to the 2016 Ryder Cup at Hazeltine. The PGA of America started the buildout of the chalets and grandstands on June 1st. It was truly amazing to see how much would be built every day – and all for 6 days of actual activity! Overall, there was 1.5 million square feet of infrastructure built on the property. Starting on August 1st, all shots from the par-three tee boxes, fairways, and closely mown areas around the greens were played from a small turf mat. This would ensure that the golf course was absolutely pristine come late September when Team USA and Team Europe showed up. The golf course was completely shut down on September 5th as the PGA of America finished all of the work to get the golf course and clubhouse ready.

I had a unique job during the Ryder Cup. I became close friends with the Executive Producer of European Tour Productions

during the Year-Out celebration, and he called me in the middle of the summer asking if I would like to be a part of their team during the week. My duties would be to follow a camera crew that filmed live golf and then interviewed the European players immediately after their matches were completed. It was an incredible experience to see the Live TV side of a major event. I was lucky enough to have an "All-Access" pass that allowed me to go anywhere I wanted inside the ropes of the golf course. From Monday-Thursday, I was able to show the European crew I worked with around the golf course so they were familiar with the property. We spent a lot of time on the range, the media center, and walking the golf course. It was a truly remarkable experience being able to walk inside the ropes of the biggest golf tournament in the world!

The week of the Ryder Cup started with the news of the passing of Arnold Palmer. The King loved the Ryder Cup, and to honor him all week was a class act by the PGA of America and Hazeltine National. What was special about that was when Team USA swept the morning session; ironically, the last time that happened was in 1975 – the last time Arnold Palmer was Captain.

When Friday started, we were either on the range filming the players or on the first tee. The first tee at the Ryder Cup is one of the most thrilling places in sports (see photos). From the first tee we would go over to certain spots on the course and film, and toward the end of the matches, we would walk with groups and try to plot where they would finish so we could be there to conduct the interviews.

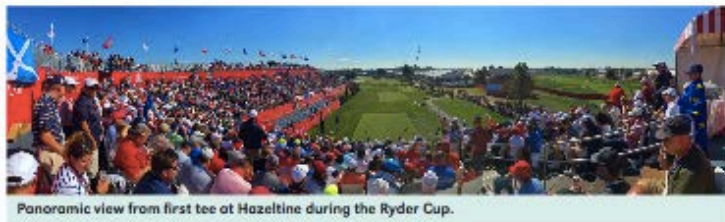
(continued on page 11)



Players warm up behind the first tee grandstand on Friday morning of the Ryder Cup.



Nick Sage (second from left) with Hazeltine staff members in front of the first tee. Nick is the one with the Live TV "All-Access" pass.



Panoramic view from first tee at Hazeltine during the Ryder Cup.

Figure 30: CGS Article 25 (Murray, 2016b)



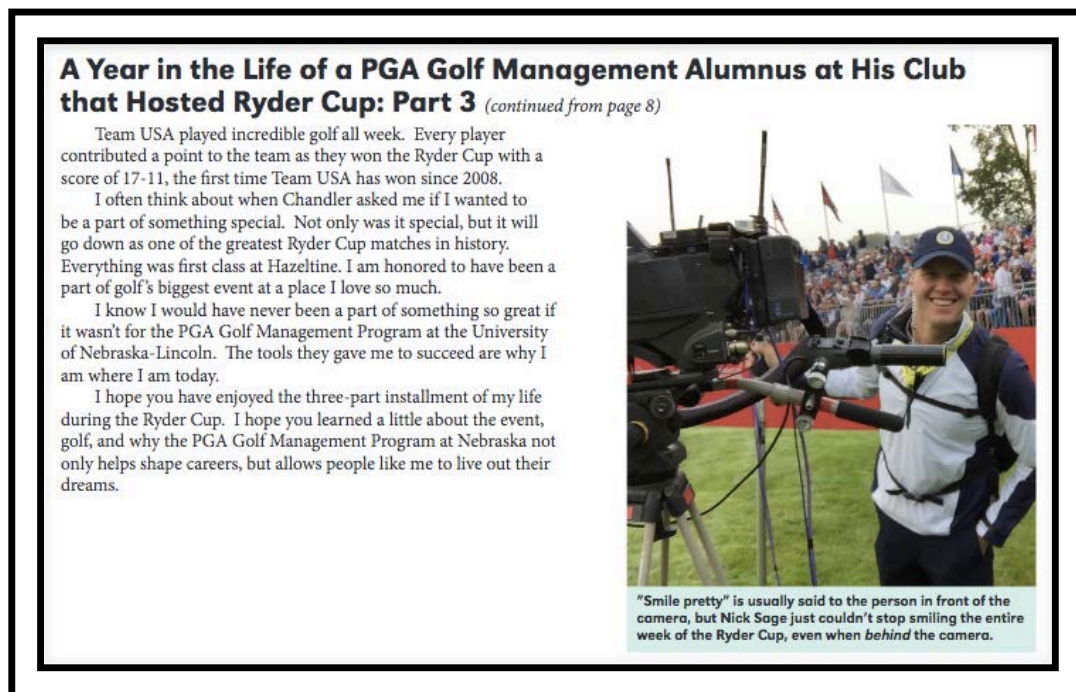


Figure 31: CGS Article 25 p.2 (Murray, 2016b)

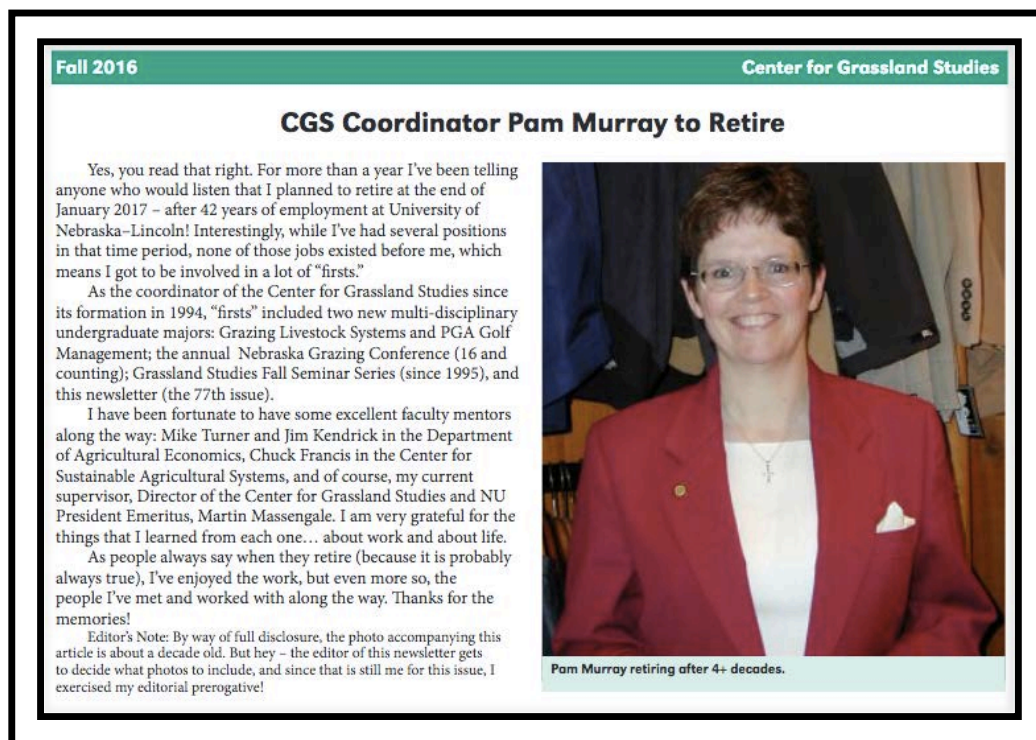


Figure 32: CGS Article 26 (Murray, 2016c)

2017

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## PGA Golf Management's Spring Scramble Golf Tournament Set for 2017

by Dann Husmann, Director, PGA Golf Management Program, Center for Grassland Studies

The 2017 Spring Scramble will be held at Wilderness Ridge Golf Course in Lincoln, NE on Sunday, April 22 – a shotgun start planned for 9:30 AM. The cost is \$75 per player (\$35 for current PGA Golf Management program students). The fee includes a round of golf, range balls, a golf cart, and lunch.

This annual event promotes the PGA Golf Management program at the University of Nebraska-Lincoln. More importantly, it serves as a fundraiser for scholarships offered to further students' education in the program, as well as build their passion for golf. In 2016, five \$500 scholarships were awarded to students and \$500 worth of pin prizes were made available, which included rounds of golf at Wilderness Ridge and PGA merchandise.

If you would like to donate to the Spring Scramble, please contact the PGA Golf Management program by calling (402) 472-7467 or emailing [unlpgascramble@gmail.com](mailto:unlpgascramble@gmail.com). For more information about the 2017 Spring Scramble, and to register yourself or your team, go online to [pgm.unl.edu](http://pgm.unl.edu). The deadline for registration is April 15.

Do not miss this opportunity to get out and enjoy a round of golf with friends, perhaps take home a few prizes, and bid on some great silent auction items. We look forward to seeing you at the 2017 Spring Scramble!

Figure 33: CGS Article 27 (Husmann, 2017b)

## UNL PGA Golf Management Attends 2017 PGA Merchandise Show

by Brad Goetsch, PGA Golf Management Instruction Coordinator, PGA Golf Management Program, Center for Grassland Studies

The University of Nebraska-Lincoln PGA Golf Management program was represented by 27 students at the 2017 PGA Merchandise show held January 23-27 in Orlando, Florida. The event provides opportunities for the students to learn about new golf products and technology hitting the market, as well as to participate in education sessions.

Students attended a Dierks Bently concert compliments of Folds of Honor—a charity which raises scholarships for families of America's fallen and disabled service members. Staffing the UNL PGA Golf Management program booth allowed the students another opportunity to network with leaders within the profession. Participating in a short-game skills challenge was a fun way to compete for monies to support their club. However, two of the most talked about events included the leadership seminar hosted by Titleist, and the luncheon hosted by the PGA, which put students in touch with past presidents or current members of the PGA board of directors.

The golf industry needs more talented golf professionals to support the growth of the game, which was evidenced by the number of industry professionals looking to fill full-time positions within the golf profession. The Billy Casper Golf reception provided one of the many opportunities for students to interact with individuals within the industry to learn more about internships and possible employment opportunities. To support the intern and employment need, the UNL PGA Golf Management program staff will be contacting alumni and supporters to help identify persons interested in Nebraska's program.

Overall, the show helped to put the UNL PGA Golf Management program into the overall context of the golf industry, which is positive.




Figure 34: CGS Article 28 (Goetsch, 2017b)



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Spring 2017

## Massengale Reflects on Four Decades at Nebraska

by Haley Steinkuhler, Media Specialist, Institute of Agriculture and Natural Resources, University of Nebraska-Lincoln


Martin Massengale credits the people of Nebraska for his long and illustrious career at the University of Nebraska. The president and chancellor emeritus and founding director of the Center for Grassland Studies and Foundation Distinguished Professor is beginning his transition into retirement after more than four decades at the university.

"I think Nebraskans as a group are some of the most supportive and dedicated people in the world," Massengale said. "That is one of the main reasons I have stayed in the state for 40 years. I like the people, and they are there for you when needed."

Massengale said one of the University's strengths over the years is how it has served Nebraskans, and they have been unwavering with their support in return. Throughout his career, he has been passionate about developing interdisciplinary approaches that bring groundbreaking research to the people.

"The tripartite mission of the University of Nebraska-Lincoln is critical," he said. "If you're going to do research, it needs to be disseminated to the people, and the logical place to conduct that research is where you have faculty members teaching our creative young people and distributing the information."

A Kentucky native, Massengale grew up on a diversified family farm, which guided his interest in agriculture. In 1952, at 18, he graduated from Western Kentucky University after earning his bachelor's degree in agriculture. He moved on to the University of Wisconsin, where he was a research assistant while earning his master's and doctoral degrees in agronomy. Following two years of service



with the U.S. Army as a technical adviser, Massengale joined the University of Arizona as an assistant professor of agronomy in 1958. He quickly rose through the ranks of associate professor, professor and agronomy department head before being named associate dean and associate director of the Arizona Agricultural Experiment Station.

In 1976, Massengale came to Nebraska as vice chancellor of the Institute of Agriculture and Natural Resources. He was the second person to take the reins of IANR after it was created by the Nebraska Legislature in 1973.

Massengale became Nebraska's 16th chancellor in 1981, a post he held for 10 years. When the farm recession of the 1980s hit the economy hard, Massengale had to work closely with administrators, faculty and staff to ensure growth and progress.


"I'm proud that we were able to manage through that time with minimal disruption," Massengale said. "It's faculty and staff that make the difference in the university, so it was about keeping their best interests in mind."

With the recession past, Massengale was able to build on the University's rising trajectory. Faculty grant funding increased, several facilities were built – including the Lied Center for Performing Arts and the Beadle Center – and the University acquired the Gundmundsen Sandhills Laboratory, resulting in advances in range... (Continued on Page 8)

### Save the Date

- May 31-Jun 1 —  
**2017 PGA PGM Spring Conference,**  
Lincoln, NE
- Aug 8-9 —  
**Nebraska Grazing Conference,**  
Ramada Kearney, Kearney, NE.  
Keynote speakers are Jim Gerrish and Peter Ballerstedt
- Sept 22-23 —  
**Inaugural PGM PGA Alumni Celebration,**  
Lincoln, NE

*Headshot Photo by Brad Goetsch*



The University of Nebraska-Lincoln does not discriminate based on gender, age, disability, race, color, religion, marital status, veteran's status, national or ethnic origin, or sexual orientation.

Figure 35: CGS Article 29 (Steinkuhler, 2017)

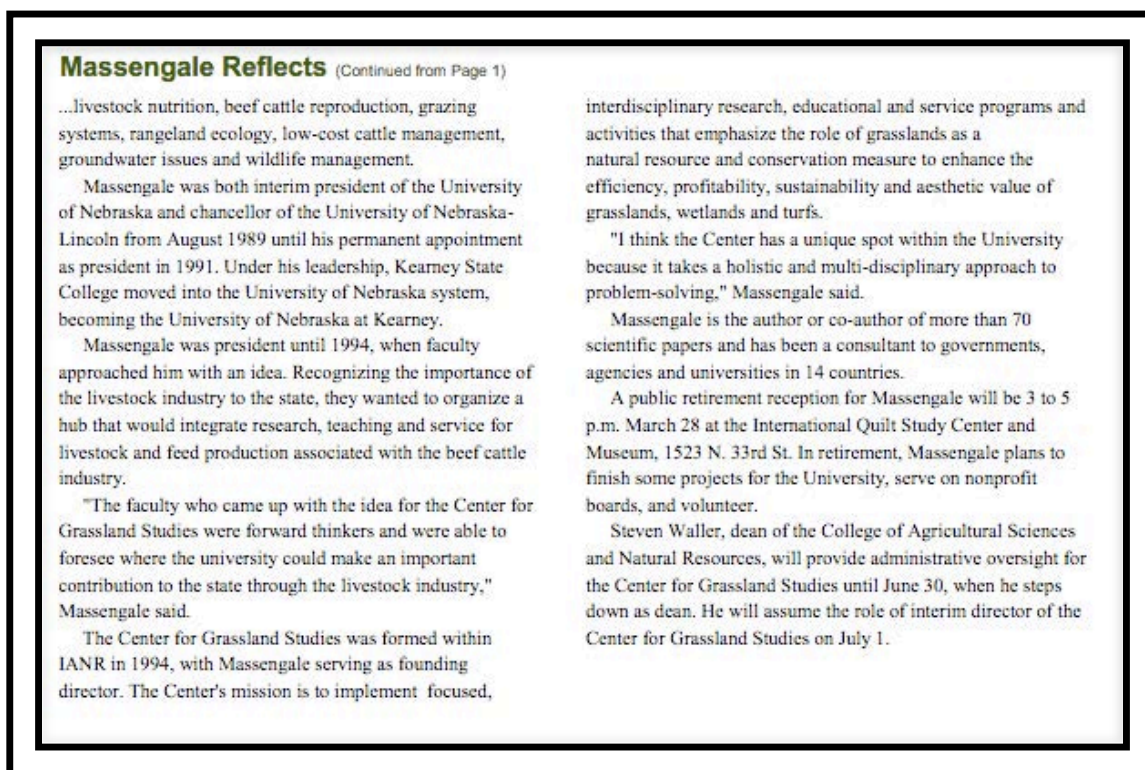


Figure 36: CGS Article 29 p.2 (Steinkuhler, 2017)

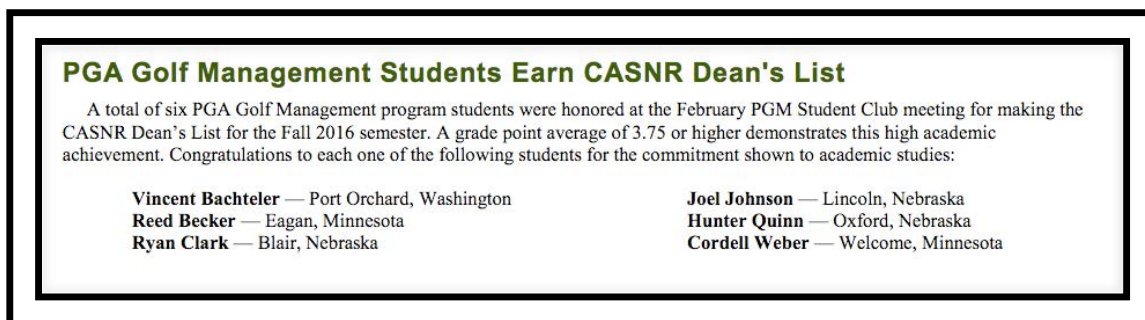


Figure 37: CGS Article 30 (Husmann, 2017c)

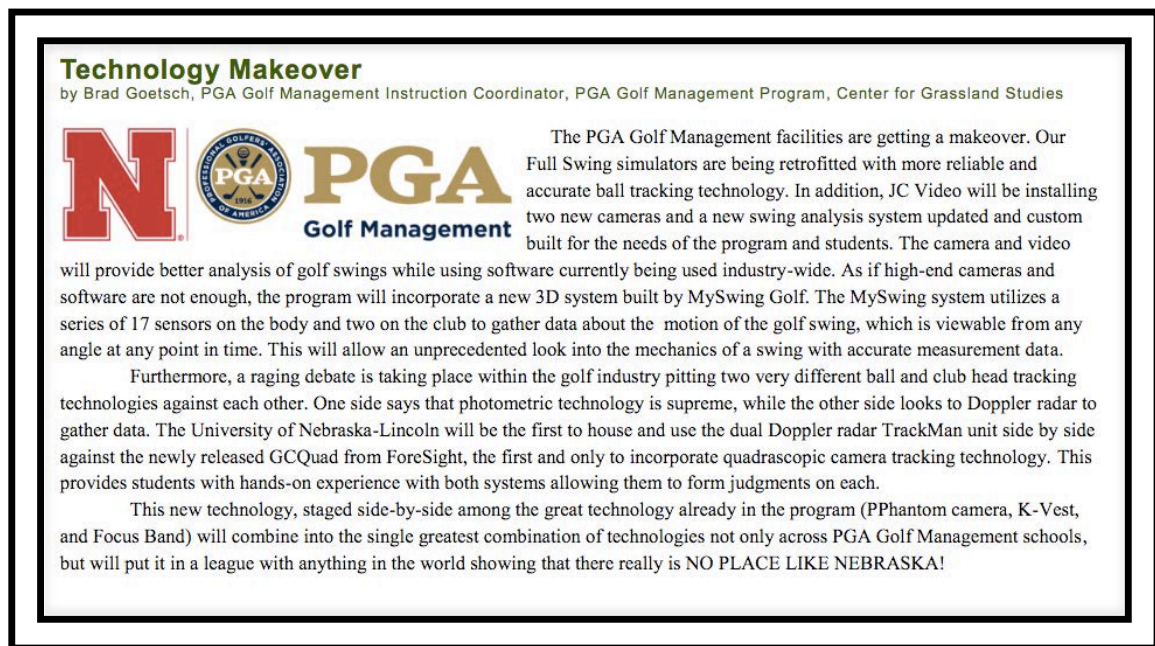


Figure 38: CGS Article 31 (Goetsch, 2017a)

## Program Directors

**Dr. Terry Riordan.** Dr. Terrance Riordan served as the first director of the program from 2003-2009 (Olson, 2003; Riordan, 2017). Terry came over to the program from the department of Agronomy and Horticulture where his focus was on turfgrass. In the turfgrass area, Terry has published numerous papers and also owns patents and PVP's on several cultivars of Buffalo Grass (Agronomy, n.d.). As he was starting the PGA Golf Management program, Terry was required to go through the various seminars conducted by the PGA of America so that he could become familiar with their curriculum. He completed all coursework required by the PGA and achieved his PGA membership while he was Director of the program at UNL. Terry also holds the following degrees: B.S.,



Turf Management, Purdue University; M.S., Plant Breeding, Purdue University; PH.D., Plant Breeding, Purdue University.

In a reflection piece included in the February 25, 2016 issue of “PGA Golf Management Today”, Terry had the following remarks:

I retired in December, 2009. Although I was a turfgrass agronomist and plant breeder, my last position was as the first director of UNL’s PGA Golf Management Program. This is a great program, and I am proud to have been involved in its initial development.

I enjoyed getting to know the young men and women who were the first students in the program, watching them progress towards graduation and now seeing them develop in their careers. Each student was different, but so many are already making a difference either in golf or in some other related field. There were a lot of concerns initially about the ‘GOLF MAJORS’ at UNL, but they have proven themselves to be strong students and good employees after graduation.

Since I graduated (retired), I have tried to stay close to golf and my interests that relate to golf. I’ve been to the USGA Rules School, been a rules official multiple times (met Billy Horschel when he was trying to qualify at Yankee Hill Country Club to get on the PGA tour; how did that work out?), traveled to South Korea to help them set up a golf management program, and helped Wilderness Ridge Golf Club become a

better and more playable golf course.

Now at 72, I am just trying to spend more time with my wife, Judy, and our children and grandchildren. I also still try to improve my golf game, but it seems that each year the golf course gets longer (I hit the ball a shorter distance). However, the game is still fun. Although I have been playing it for 56 years, I still want to go out and try it again along with all the other old curmudgeons who have just as much passion for the game as I do.

Some of you may remember I told you that your college years would go by really fast; I'm sure you agree, now that you have or are in the process of completing college. Since I have completed the next part – a career, that goes by pretty fast also. So make the most of it and enjoy everything that life brings you. Hopefully, I will see most of you sometime, somewhere.  
(Riordan, 2017)

**Dr. Alan Baquet.** Dr. Alan Baquet came on board to direct the program following the retirement of Dr. Riordan in 2009 (Murray, 2009b). Alan came from the Department of Agricultural Economics. Alan's background is in Ag Econ and Ag Business. Alan also brought a background in leadership which proved to be instrumental in developing our senior students and helping to prepare them for success in an industry dominated by human interaction. Alan holds the following degrees: B.S., Agricultural Business, Montana State University; M.S., Agricultural Economics, Oregon State

University; Ph.D., Production Economics/Farm Management, Michigan State University (Alan Baquet, Personal Communication, March 27, 2017).

In a reflection/update piece included in the February 25, 2016 issue of “PGA Golf Management Today”, Alan had the following remarks:

As most of you know, I retired from UNL in June of 2015. I’ve moved to Alexandria, Virginia as my wife, Belinda, works in DC for the National Office of Headstart...and I don’t work! Retired life has been fun and interesting. I’ve enjoyed getting to know the East Coast and the DC area in particular. Lots of things to see and do!

We’ve joined the Mount Vernon Country Club here in Alexandria, VA. So golf is still an important part of my life and how I spend my time! Let me know if any of you are ever in this area and we’ll get a round of golf played.

While retirement has been fine, I do miss the interactions with students and colleagues. I can say that the six years I spent in the PGA Golf Management (PGM) Program were the most rewarding of my 38-year career. The opportunity to work with excellent staff members and students who were preparing for a career in the golf industry was a true blessing. It was always fun to be in the classroom or on the golf course with students. I particularly enjoyed the opportunities to visit students on internships, and hope that students who intern on the East Coast will let me know and I’ll



try to visit them. I do keep track of happenings in the PGM program through Facebook and the website, so keep up the good work!

While I indicated I'm not really working now, I will still keep a bit involved in the PGM programs as the PGA has asked me to be part of its accreditation review team, so I'll have the opportunity to visit some of the other PGM schools. (Baquet, 2017)

**Dr. Dann Husmann.** Dr. Dann Husmann became the third director of the PGA Golf Management Program on July 1, 2015 (Murray, 2015b). Dann has an extensive background in teacher education, which brings a new element to the program. With an intense focus on golf instruction being a core component of the program, this experience helps students to better understand the educational process. His expertise also helps to create the most dynamic and interactive learning environments the program has known. Dann holds the following degrees: Bachelor's of Science in Agricultural Education with emphasis in Secondary Teaching, University of Nebraska-Lincoln, May 1982; Master's of Science in Agricultural Education with emphasis in Agricultural Education, Kansas State University, December 1986; Ph.D. in Community and Human Resources with emphasis in Human Resource Development, University of Nebraska-Lincoln, May 1981 (Dann Husmann, Personal communication, April 19, 2017)

In the February 25, 2016 issue of PGA Golf Management Today (the program's inaugural newsletter), Dann wrote the following piece highlighting the program and its future direction:

Welcome to the inaugural edition of our newsletter for the PGA Golf Management Program at the University of Nebraska-Lincoln! In an attempt to publicize the program better, we have decided to create an on-line newsletter to connect with alumni, students, and our colleagues across the golf industry.

First to our alumni. The first students or "pioneers" of the program started back with Dr. Terry Riordan in 2004. To follow what Dr. Riordan is up to these days, I would encourage you to read his update later on in the newsletter.

After Dr. Riordan's retirement, the program saw Dr. Alan Baquet lead the program for the next six years until his retirement in the spring of 2015. Dr. Baquet has also provided an update on his happenings since he retired from the university. Both Drs. Riordan and Baquet seem to be playing quite a bit of golf these days. Well earned gentlemen and thank you for your dedication and commitment to UNL's PGA Golf Management Program.

Second, our current students are an interesting and diverse population from across the state, the region, and the world. This diversity provides a rich environment for our students and the staff associated with the program. We have highlighted many of our current students in our

newsletter, so I encourage you to read up on their experiences and their successes.

Third, our future students continue to be the primary target for our recruitment efforts. We have the capacity to significantly grow our student numbers in the program and we need your help to increase student enrollment. If you need promotional materials from our office, let us know and we would be happy to mail out our recruitment brochures and handouts. Getting the word out about our program to all interested students is a high priority and our friends in the golf industry can play a critical role in attracting these students.

Fourth, individuals and groups involved in all aspects of the golf industry are encouraged to make a campus visit to see the changes happening in Keim Hall (our home building on East Campus). To see and read about some of our latest developments, please read the articles dedicated to showcasing our newly renovated facilities.

Finally, I am so fortunate to work with a group of individuals who make the experience for all involved in our academic program in PGA golf management so wonderful. These individuals are truly committed to making a positive difference in the lives of our students while on campus and have worked hard in creating outstanding PGA professionals who will

be the leaders throughout their professional and personal lives. Thank you to Shaun, Pam, Brad, Scott, and Martin for making our team the best in the nation! (Husmann, 2017a)

### **Other Staff Members**

**Scott Holly.** Scott is a PGA Professional and is the Program Coordinator for the PGA Golf Management Program. Scott has been part of the program since the beginning in 2003 (Olson, 2003). Scott manages the Internship Program, provides support for PGA Golf Management courses that help prepare students to pass the PGA levels, assists with recruitment and student activities such as golf tournaments, co-advises PGM Student Club, and provides individualized golf instruction to students through an involved player development program (PGM, n.d.). Scott is a graduate of the PGA Golf Management Program at New Mexico State University.

**Brad Goetsch.** Besides being the writer of this piece, Brad serves as the Instruction Coordinator for the program. Brad has been a part of the program since May of 2011. Prior to joining the program, Brad was an Assistant Golf Professional at Ridgewood CC in Waco, Texas and he is a graduate of the PGA Golf Management Program at Ferris State University in Big Rapids, MI. Brad's primary duties revolve around teaching PGAM classes (especially those related closely to teaching the game of golf). Brad also serves as the primary liaison to the PGA of America and is responsible for completion of semester and annual reporting to the PGA. In addition to these, Brad steps in as an advisor to the students, including new student enrollments in the absence of the Director.

**Tara Lea (Pawling).** Tara was in Brad's post from the start of the program until 2011. Tara was always loved by the students and was extremely supportive of them. Since departing the program, she has held positions in: Marketing with the Cox Classic (now defunct golf tournament), President of the Ralston Area Chamber of Commerce and is currently the Executive Director of the Fremont Area Chamber of Commerce (Tara Lea, Personal Communication, n.d.)

#### **Faculty/Staff with Part-time appointments in PGM**

The staff associated with the broader unit of the Center for Grassland Studies spend a great deal of time assisting with the successful operation of the PGA Golf Management Program at UNL. The Center has served as the academic home of PGA Golf Management since the program began. The multi-disciplinary nature of the Center makes it the perfect home for the program and it also serves as the home for the Grazing Livestock Systems (GLS) Major.

**Dr. Martin Massengale.** Dr. Massengale is responsible for the creation of the Center for Grassland studies ("History- Center for Grassland Studies," n.d.). In over forty years at the University of Nebraska, Dr. Massengale has served at many levels up to and including President of the University System from 1991-1994 (Steinkuhler, 2017). He has been instrumental in the formation and evolution of the program and in guiding its success. There is no question that, without his influence, the program would not be what it is today and it may not exist at all. As of this writing, he is transitioning into retirement, though he remains active within the Center and the program.

**Pam Murray.** Shortly before the completion of this piece, Ms. Pam Murray retired from the University after more than forty-two years of service (Murray, 2016c). Pam took the role of Coordinator of the Center for Grassland Studies upon its inception in 1994 and held that position up through her retirement in 2017. Her main roles with the program involved recruitment and processing of graduates. Her attention to detail and ability to organize and help students through the matriculation process was key to the success of the program. There have been many students who have stated that “Pam was the reason they chose the Nebraska PGM Program”.

**Margo McKendree.** At the time of writing, Ms. McKendree is new to the program and serving as a temporary employee to fill the void left by the retirement of Pam Murray (PGM, n.d.).

**Shaun Weishaar.** Shaun has been working with the Center since August of 2015. Shaun holds the position of Office Associate in the Center for Grassland Studies. She assists with any and all activities/tasks involved in the center and both academic majors (PGM, n.d.).

**Previous Office Associates.** Prior to Shaun taking the “point” position in the office, there have been several individuals who filled this role (Murray, 2010) (Personal communication, n.d.).

- Ms. Maria Benes from 2014-2015
- Ms. Connie Hansen from 2011-2014
- Ms. Pamela Wealand during 2010
- Ms. Jan Shamburg from 1994-2010

**Teaching Assistants.** The public record on teaching assistants within the program is incomplete at best. It seems best to highlight this position in broader terms than persons filling the role. There is no question that the role of Teaching Assistant in any program or class is absolutely vital. TA's have often served as the first point of contact with a student in the class setting. For the position of TA, Junior or Senior level students in the program who have a proven track record of success on PGA materials and in the classroom have been recruited. Teaching assistants have often been observed going above and well beyond the scope of their job descriptions to help their fellow students to be successful. Teaching Assistants have and will continue to be a crucial part of the success of the PGA Golf Management Program at UNL.



Figure 39: Facebook Post- Teaching Assistants (PGM, 2017)

## **Chapter IV: Students**

There are a lot of things that students have done in the past and things that have been done for the students to help make their experiences at UNL highly valuable to their careers and to their lives. Every decision has and should continue to be made with the needs of the student at the forefront of the decision making process.

With regards to activities, students have participated in activities that are organized at the club level as well as at the program level. Many philanthropy related activities are always being organized through the student club which is operated by students and advised by the program staff. Activities outside of those operated by the student club are organized by the program and generally relate to the College of Agricultural Sciences and Natural Resources, the Industry (Nebraska PGA, etc.) and educational seminars designed to complement the curriculum delivered in class. Historically, the lines between the club and the program events have been blurred, which seems to be beneficial as it provides continuity between the two entities, which are deeply intertwined.

### **Student Club**

The PGA Golf Management Student Club is a University Registered Student Organization (RSO). While technically open to anyone on campus, it has traditionally been PGA Golf Management Majors who are exclusively a part of the club. Club membership is mandatory for all PGA Golf Management majors and participation in all club activities is highly encouraged. The club collects dues on a semester basis and uses the money for club operations. Operations involve: bringing in guest speakers, covering some expenses related to student activities, maintaining computers and printers in the



student resource room and any other expenditures that the club deems necessary through a democratic process.



Figure 40: Earliest Available Photo of Student Club (2009) (Photo Credit: Tara Lea)



Figure 41: Latest Photo of Student Club (2017) (Photo: Author's Own)

**Activities.** The PGA Golf Management Student Club has always been a very active club. Activities have centered around philanthropy, club support, industry support

and socialization among members of the club. Every month, the students gather for their meeting. Held on the first Friday of each month during the school year (few exceptions) at 4:00 PM in Plant Science Hall, room 199, the students meet to discuss club affairs. There are typically guest speakers who address the students about any number of topics directly in the industry or in other industries relating topics back to the golf industry. Following the presentations by the guest speakers, the students conduct their normal club business. This typically involves the club president leading the students through reports from committee heads, other officers and the staff of the program. The Club Meetings usually last one hour and thirty minutes to two hours.

Another cornerstone of the student club activities schedule is comprised of the tournaments. The student club tournaments are part of the broader player development program, which is managed by the program rather than by the club, so in this case we find an element that really blends the two together. Students in the program are required to play in a minimum of four rounds of tournament golf in these sanctioned events. This number was three until the program's most recent accreditation visit by the PGA in 2014. Other details of the Player Development program are covered in the Program Activities section.

The best way to highlight some of the club's special activities over the years is to showcase clips of the events taken from social media. The following is certainly not an all-inclusive account of every activity but does showcase all of the highlights of the involvement of the student club. Many of these activities are annual events.



Figure 42: Facebook Post- Special Olympics Event (2012)

The Special Olympics golf instruction event has been held each spring since 2012 with the exception of 2016 when it was cancelled due to weather.



Figure 43: Facebook Post- Book Club (2013)

The book club was a short-lived activity but there has been recent talk about reviving it.



 **PGA Golf Management-University of Nebraska**  
March 27, 2013 · 🌐

The Third Annual PGA Golf Management Spring Scramble is upon us! Get your team together today! Proceeds will be used to build scholarship funds for deserving PGA Golf Management Students.



# Spring Scramble Golf Tournament

**Sunday, April 21**  
**1:30 pm shotgun**

**\$100/player Entry Fee Includes:**

- Golf (cart included)
- Range Balls
- Awards Banquet Dinner
- Great Prizes!
- Pictures with the U.S. Senior Open Trophy

All proceeds benefit UNL PGA Golf Management Scholarship Fund



**PRIZES**

- Team Prizes
- Hole-in-one
  - \$10,000
  - New Car
- Hole Prizes
- Raffle and Silent Auction:
  - U.S. Senior Open Tickets
  - Cox Classic Tickets
  - Rounds of Golf

**4 Person Scramble**  
Register your foursome today!  
Deadline: Wednesday, April 10  
Visit [pgm.unl.edu](http://pgm.unl.edu)  
Call UNL PGM: 402-472-7467  
Email: [unlpgascramble@gmail.com](mailto:unlpgascramble@gmail.com)

Figure 44: Facebook Post-Spring Scramble Flier (2013)

The Spring Scramble golf tournament has been held annually since 2010 and has grown to the point where around \$2,000 has been awarded in each of the last couple of years





**Figure 45: Facebook Post- BIG Event (2013)**

The BIG Event is a university wide outreach event in which the Student Club participates annually. It always seems to synchronize with the Master's golf tournament so viewing parties are held in conjunction (below)



Figure 46: Facebook Post-Master's Watch Party (2013)



**Figure 47: Facebook Post-Trophy Case, CONE Cup (2013)**

The CONE Cup is a Ryder Cup style event held annually between the Nebraska program and the program at the University of Central Oklahoma. The event was contested for the first time in 2008 and has been held every year since. UCO leads the series 5-4.





Figure 48: Facebook Post-Riordan Cup (2013)

The Riordan Cup is another match-play style event held annually since 2012. This event, named after founding Director, Dr. Terry Riordan, features in-state students vs. out of state students (Nebraska v World). Nebraska holds the lead in the series 3-2.



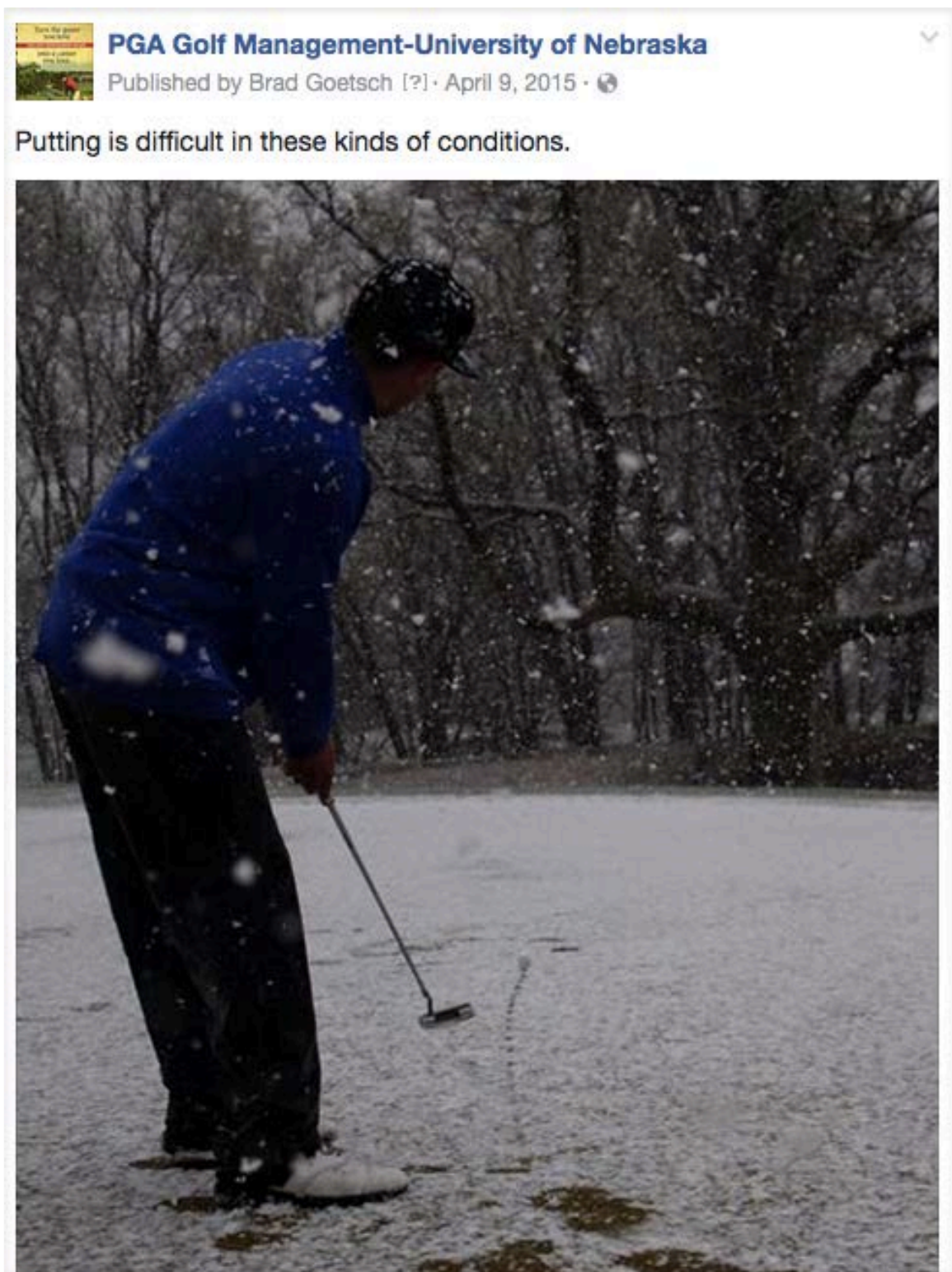
**Figure 49: Facebook Post-Lincoln Stars Hockey Night (2014)**

At least one trip to a Lincoln Stars hockey game is typical each academic year.





Figure 50: Facebook Post-Summer Send-off (2014)



**Figure 51: Facebook Post- Stroke Play Championship (2015)**

This was the scene at the 2015 Stroke Play Championship at Fremont Golf Club.





Figure 52: Facebook Post-Folds of Honor (2016)

Students have stepped up year after year to support the Folds of Honor raising scholarship money for the families of soldiers wounded or killed in action. In 2014 (donation finalized in 2015) the students raised \$5,000 (equal to one full scholarship).



Figure 53: Facebook Post-Kelbel Cup (2016)



Figure 54: Facebook Post-Riordan Cup (2016)





Figure 55: Facebook Post- Jones Cup (2016)

**PGA Golf Management-University of Nebraska** added 2 new photos.

Published by Dann Husmann [?] · October 8, 2016 · 🌐

Day 1 from Belmar Country Club is complete. Zach Gleysteen's Team scored 4 points to UCO's 3 points after today's fourball round. Tomorrow are the 14 single matches at Kickingbird. Go Big Red! Big home the CONE Cup!



Al Peterson III	$\frac{1}{2}$	$\frac{1}{2}$	Farmer Schaeffer
MATCH 3			
Blake Schroeder	1	0	Holden Crago
Nathan Vaughn			Ty Tamura
MATCH 4			
Brad Bailey	0	1	Feyton Knell
Trenton Peterson			Jake Warner

Figure 56: Facebook Post-CONE Cup (2016)





Figure 57: Facebook Post-Intramural Basketball (2017)



Figure 58: Facebook Post: New Officers (2017)

**Organization.** Up until 2013, the structure of the club followed the traditional structure of many RSO's. There was a President, Vice-President, Secretary and Treasurer. In 2012-2013 there was a need identified to form and ratify a more complete constitution with Bylaws and Regulations for the club operations. The decision was made by the club leadership to draft a proposed Constitution, Bylaws and Regulations that would mimic the document used by the PGA of America. Under the proposal, the club

would also adopt the leadership structure used by the PGA and eliminate the Treasurer role. The new officer makeup would be: President (mainly presides over meetings and appoints committee heads), the Vice-President (primarily responsible for financial affairs and takes over in absence of President) and the Secretary (takes meeting minutes and fills in if President and VP are absent). This new proposed structure was put before the club in the spring of 2013 and passed with zero objections. This added structure seemed to revitalize the club atmosphere and there was a noticeable uptick in activity participation and energy in the club.

### **Program Activities**

As previously stated, the line between program specific activities and those managed by the student club has often been blurred. This is because each has taken a strong role in assisting the other. Still, it seems important to highlight the historical distinction between the two. Program activities have typically been related directly to class, the curriculum and expectations set by the PGA. Another point of distinction is that while program activities have typically involved students, sometimes they do not. The following figures are accounts of program activities taken from Facebook posts (PGM, 2017):





**Figure 59: Facebook Post-Level 3 Graduation (2013)**

This group represents the final to move through the 1.0 program. The sequence and variability of timing in the 2.0 program has made it all but impossible to host these types of gatherings following the completion of all PGA academic activities.



Figure 60: Facebook Post-CCL Event (2013)





Figure 61: Facebook Post- Level 3 Teaching Seminar (2014)

# PGA Golf Management Open House



**\* Time: 2 to 4 PM**  
**\* Location: 203 Keim Hall**  
**\* Date: 8/21/15 (Friday) after the CASNR Luau**

The PGA Golf Management's Open House will allow new students and parents along with existing students and parents to meet the individuals associated with the program. Soft drinks and cookies will be served.

203 Keim Hall is located east and a little north of the Nebraska East Union on East Campus. Our main doors are located on the south side of Keim Hall (straight north of the construction where the new student residence hall will open in the fall of 2017). For more information, please call Shaun at 402-472-7467.



Figure 62: Flier- PGAGM Open House (2015)





Figure 63: Facebook Post- First Rules Seminar (2015)



Figure 64: Facebook Post- Landscapes Unlimited Visit (2015)





**Figure 65: Facebook Post- James Leitz D-Plane Seminar (2015)**

A two day seminar was put on for students and section professionals covering the D-Plane concepts and to help everyone to better understand ball flight. Taught by one of the game's teaching greats, James Leitz, PGA.



**Figure 66: Facebook Post- Students to PGA Annual Meeting (2015)**

The PGA hosts an annual leadership conference involving students from all PGA Golf Management Universities. Until 2014 this was hosted in Port St. Lucie at the PGA Education Center. Since, it has been hosted at the PGA Annual Meetings.



Figure 67: Facebook Post-Orlando Folds of Honor Event (2016)





**Figure 68:Facebook Post- Scotland Education Abroad Trip (2016)**

The 2016 Scotland Education Abroad program is a recent highlight of the program. Brad led eleven students to Edinburgh and St. Andrews to learn about the culture in the birthplace of the game. The trip is set to repeat in summer 2018.



**Figure 69: Facebook Post- Ryder Cup at Hazeltine (2016)**

Students, along with Alan and Brad came together for this photo at the 2016 Ryder Cup at Hazeltine National on the day of victory for the USA! Several other students were at the event as spectators and interns.





Figure 70: Facebook Post-PGA Merchandise Show (2017)

**Player development.** As noted above, program activities include a wide variety of things. A staple set of activities involves our player development program. Part of this is the tournament schedule (tournaments are operated by the student club, so these are a true joint venture). Individual and group lessons are a large part of this program. Through the history of the program there have been many instructors who have worked with our

students to provide lessons to help them improve their games (and also to learn a little more about teaching). Generally, our students have worked with the staff present at Wilderness Ridge, Firethorn and the now defunct West Nine Golf Course to get their lessons as well as clubfittings. The primary intent behind the player development program is to prepare students to pass the Playing Ability Test. Students who are in the program and have not passed the PAT must participate in the player development program activities that are organized each and every semester.

The actual activities vary quite a bit, but they typically involve a series of individual lessons held on campus each spring semester and group lessons organized in spring and fall semesters. At the beginning of each fall semester, Scott Holly organizes and runs a skills evaluation utilizing the Tucker Short Game Test to analyze students' strengths and weaknesses to help identify areas of needed improvement. These results are shared with the student and used to determine the topics of the group lessons. Students are also encouraged to take individual lessons with contracted professionals to help improve their skills.

## **Chapter V: Facilities**

From the very beginning, facilities have been a focal point of the program at Nebraska. Lacking a true twelve month golf season, there really needs to be a place where students can work on their swings and study the game from a playing and instructional standpoint on a year-round basis. The ideas behind the facilities at UNL related to the program are: Recruitment, Retention, and Knowledge enhancement. The program, with support from the College of Agricultural Sciences and Natural Resources (CASNR) and the Institute of Agriculture and Natural Resources (IANR) along with all of the personnel involved in the program, has housed a collection of golf related technology that is truly unlike anything else in the industry. Facilities include: The PGA Simulation Lab, The PGA Teaching Lab, The PGA Golf Management Student Resource Room, and the Partner Courses of the Program.

### **Partner Courses**

Throughout the history of the program, UNL has been working with a number of facilities and through these facilities students get a wide variety of experiences related to golf and the golf operation. The costs of student access are covered through a program fee titled “Player Development and Golf Course Access”. A requirement of the PGA of America for the program is that students have access to at least one course, to serve as the home course. This home course also serves as a Lab for students to study the golf operation as well as overall facility operation and turfgrass management. Students have unrestricted access to the home course and can play a total of ten rounds at partner courses (outside the home course) during a given semester.

**Wilderness Ridge Golf Club.** Wilderness Ridge Golf Club, on the South side of Lincoln, serves as the home course of the PGA Golf Management Program. They have served in this capacity since the program's inception in 2004 (Olson, 2003). Students have unlimited access to the 18 hole championship golf course as well as the 9 hole executive course and all practice facilities. Practice facilities include the Nebraska Golf Academy which features seven heated, covered hitting bays plus two more equipped for instruction as well as a 2,000 square foot indoor chipping and putting green. Program fees cover student use of Wilderness anytime during the academic year. Golf professionals at Wilderness have been utilized extensively for the player development program on campus and at the facility.

**Lincoln Parks and Recreation City Courses.** The City of Lincoln owns and operates five golf courses under the umbrella of the Parks and Recreation Department. Students have access via a punch-card system to all five courses: Jim Ager Memorial Golf Course, Highlands Golf Course, Holmes Park Golf Course, Mahoney Golf Course and Pioneers Golf Course. Many of the student club tournaments are held at these various city properties. In addition to tournaments, students can play the courses on their own (for a total of seven rounds/semester including the tournament rounds) with course access fees covering the costs of the green-fees.

**Crooked Creek Golf Club.** Crooked Creek Golf Club is a public facility on the east side of Lincoln. Students have access to Crooked Creek with costs covered by their program fees during the academic semester. Crooked Creek also serves as a common host site for the Playing Ability Tests hosted by the Nebraska Section of the PGA of America.

**Hillcrest Country Club.** Hillcrest is a private club on the Eastern edge of Lincoln. Generally one tournament is hosted here each semester and students have the same access as they do to the other partner courses. Hillcrest is a great supporter of the program and is usually available to host prospective students as well when Wilderness is unavailable. Hillcrest was also an original partner course of the program (Olson, 2003).

**Woodland Hills Golf Course.** Woodland Hills is located in Eagle, NE (about a twenty-five minute drive from campus). Despite the fact that it's a bit farther away from campus than the other courses, there are regular tournaments there and students frequently utilize the facility.



Figure 71: Facebook Post- Scott with nice bass at Woodland Hills (2015)



**Firethorn Golf Club.** Located in South West Lincoln and no longer listed as an official partner course it still remains supportive of the program. There was a mutual decision to dissolve the contract between the program and Firethorn in 2015, but it continues to hire graduates and interns. In addition to this, it is now are the home base for two of our most active PGA Professionals who deliver instruction and clubfitting services to the students. Jim White, MPGA and Greg Johannesen, PGA operate their teaching and clubfitting out of a new facility on the Firethorn range. Jim and Greg make appearances on campus at multiple times throughout each and every year, but something they are known for is their dedication to an annual spring player development program. Both professionals dedicate their Tuesday and Thursday afternoons for a month to help students in the program to become better players and teachers of the game.



**Figure 72: Facebook Post- Tues/Thurs lessons on East Campus (2016)**

They have also worked closely with the program to provide each and every student with the opportunity to learn and become certified in their patented PXIII Fitting System. This certification is offered to all students at no cost and is delivered through the PGAM 401 class.



Figure 73: Facebook Post-First PXIII Fitting Seminar (2016)

**Yankee Hill Golf Course.** Located in South Lincoln, Yankee Hill is no longer in contract with the program, it definitely has a prominent position in the history of the

program. As noted in the CGS Newsletter (Murray, 2004a), Yankee Hill was one of the original partner courses (Hillcrest was the other and Wilderness has always served as the home course). At the time of this writing, there are multiple students employed at Yankee Hill, so in a big way, it remains supportive of the program.

### **On Campus Facilities**

The program has always been well known for its fantastic facilities. From the office space, to excellent classroom space, and outstanding lab space featuring technology that attracts students to the program, the facilities help keep them engaged in the program and makes them more marketable upon graduation.

**Keim Hall, Offices and Teaching Lab.** Keim has been the long-standing home of the Center for Grassland Studies and the Program. By 2009, the Center and the Program had been relocated to Biochemistry Hall across the street to allow for Keim Hall to go through a \$14 Million Renovation (Nelson, 2010; “UNL’s Keim Hall Reopens Doors After Renovation,” 2010). The goal was to update this building (badly in need of updating) and bring it into a new era of sustainability and green energy. On September 17, 2010 the building was rededicated and granted LEED Silver Status signifying “green” design, construction, operation and maintenance.

## Crop Production

# UNL's Keim Hall reopens doors after renovation

**M**EMBERS of the University of Nebraska-Lincoln Department of Agronomy and Horticulture and colleagues in Grassland Studies, the Nebraska Forest Service and USDA moved back into Keim Hall on East Campus this summer after two years of building renovation.

Built in 1950, Keim needed substantial renovation, according to Mark Lagrimini, head of agronomy and horticulture.

Windows leaked, there were heating and cooling problems, and some laboratories no longer were suitable for the equipment scientists need to conduct research and teach students today, he says. The renovation included installation of a sprinkler system, asbestos abatement and addressing all deferred maintenance problems.

"They completely gutted the building," Lagrimini says. "Only the shell remained. From

## At a glance

- Keim Hall welcomes back faculty and students.
- Faculty in agronomy, grassland studies and USDA use building.
- Renovated structure is more energy-efficient.

the outside they retained the classic architecture of the building. Inside it's fully redesigned."

Renovators added usable space inside the building by moving the center corridor that originally ran through the building's wings to an outer wall. Adding a penthouse to the roof to house heating and cooling equipment also freed building space.

"We used as many natural materials as we could so the building itself is a classroom for our students," Lagrimini adds. "The carpet is made from a corn-based fiber. Panels



**OUTSIDE VIEW:** A center corridor that once ran through Keim Hall's wings was moved to an outer wall as part of its renovation. (University of Nebraska-Lincoln photo)

are made from wheat straw. Rainwater runoff is captured to minimize what goes into the storm sewer system."

That captured rainwater will water plants around the building and help supply the new pond and waterfall that were added to the building's center courtyard.

The building's energy perfor-

mance will be 18% better than a baseline standard building.

Keim Hall will be rededicated at 2 p.m. Sept. 17 as part of the Department of Agronomy and Horticulture's centennial celebration. On Sept. 18, public tours and lectures are planned throughout the day. The \$14 million renovation is an LB 605 Deferred Maintenance project.

LB605 was passed in 2006 to protect Nebraska's capital assets and offers a proven return in terms of economic development and improved ability to recruit and retain students and faculty, according to John Owens, recently retired IANR Harlan vice chancellor.

Source: University of Nebraska-Lincoln

**Figure 74: Nebraska Farmer Article ("UNL's Keim Hall Reopens Doors After Renovation," 2010)**

Specific to the program were the updated offices, student resource room and the new PGA Teaching Lab as well as class space, which is shared with other departments utilizing the building.



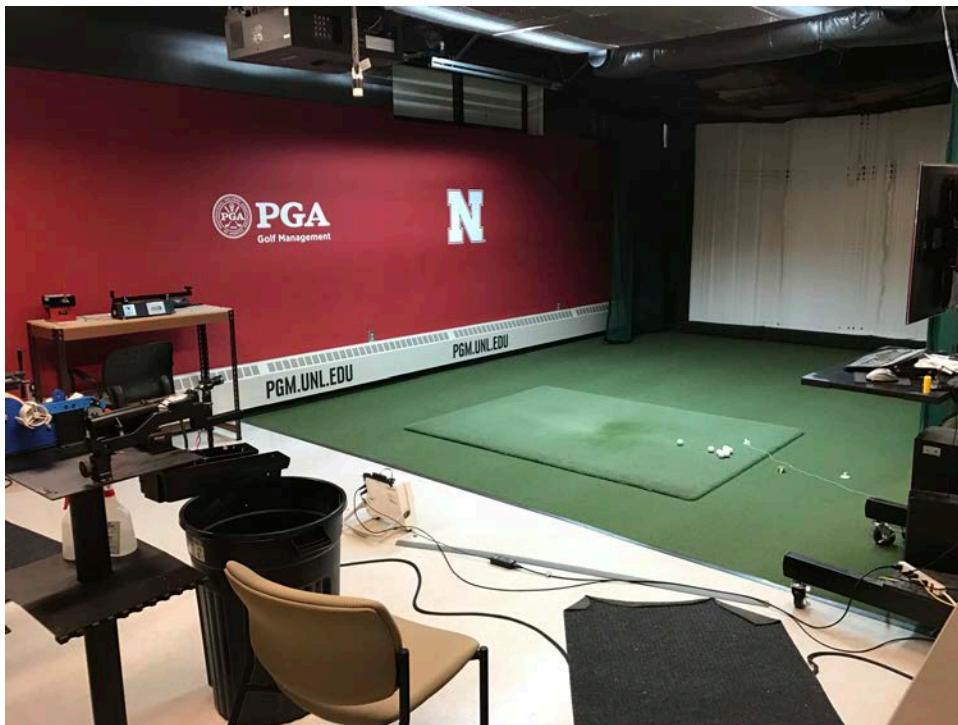


Figure 75: PGA Teaching Lab (Photo: Author's Own)

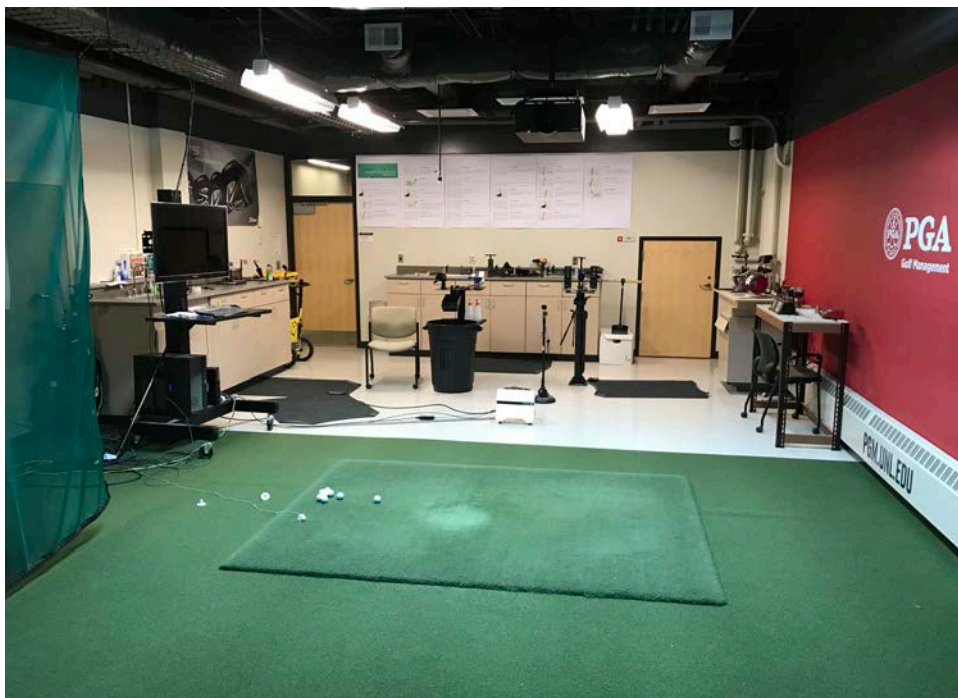


Figure 76: PGA Teaching Lab (Photo: Author's Own)



Figure 77: PGA Teaching Lab-Club Repair (Photo: Author's Own)





Figure 78: PGA Student Resource Room (Photo: Author's Own)



Figure 79: PGA Student Computer Suite (Photo: Author's Own)



**Figure 80: PGA Golf Management Trophy Case (Photo: Author's Own)**

**Biochemistry Hall and Simulation Labs.** In May of 2015, the temporary home of the Center and the Program as well as the long-standing home of the simulation lab featuring our two Full Swing branded golf simulators, was demolished to make way for a new residence hall set to open in the Fall of 2017. This meant that new space had to be found to house the simulators. Both simulators were dismantled and one was stored at the Havelock Farm facility in Lincoln while the other was set up in a temporary space formerly utilized by the Food Sciences program in Filley Hall. Eventually the simulators were both set up in Keim Hall adjacent to the existing teaching lab and the two labs were connected through a new doorway.





Figure 81: Biochemistry Hall Simulation Lab (Photo: Author's Own)



Figure 82: Biochemistry Hall Simulation Lab During Demolition (Photo: Author's Own)



Figure 83: Biochemistry Hall Coming Down (Photo: Author's Own)



**PGA Golf Management-University of Nebraska**

Published by Brad Goetsch [?] · December 16, 2015 ·

The simulators are being installed in the new space right here in Keim Hall!  
What a fantastic space upgrade!



Figure 84: Facebook Post-Keim Hall Simulation Labs under construction (2015)



Figure 85: Keim Hall Simulation Labs completed (Photo: Author's Own)



Figure 86: Keim Hall Simulation Lab-putting area (Photo: Author's Own)



The new home of the simulation labs has been viewed as a strongly positive upgrade. A new door connects the Teaching Lab to the new lab space. Having both spaces in Kiem Hall has made them infinitely more useable for classes and students.



## PGA Golf Management-University of Nebraska

Published by Brad Goetsch [?] · December 5, 2016 ·

Excited to be hosting the **Nebraska Section PGA Teaching and Coaching Summit** today on campus!



**Figure 87: Facebook Post-Nebraska PGA T&C Summit (2016)**

This photo shows the second section teaching and coaching summit held on campus.

Having local golf professionals on campus helps to spread awareness of the program and create closeness between the industry and the students/program.



## **Technology**

The spaces are great to have, but they're just empty spaces without people to utilize them. When people are utilizing them, they need things to do. In the case of the program, technology has been the answer. The golf industry, for decades, has been a very technology driven industry. From the development of playing equipment to swing analysis and teaching, everyone is always interested in what new piece of technology exists. The program at UNL has been fortunate to have the support to stay on the leading edge of this technology within the industry. Starting with the aforementioned simulation lab, which was installed in the program's infancy through the installation of the PGA Teaching Lab (above) future installation/update of brand new technology in the new simulation lab space as well as the PGA Teaching Lab. The following sections will outline the technologies that the program has employed to not only attract and keep students, but to prepare them for what they will find in the industry.

**Full Swing Simulators.** Full Swing branded simulators are the technology that called Biochemistry Hall home from their installation until preparation for the 2015 demolition. By January of 2016 they were fully operational within the walls of the newly dedicated space in Keim Hall. Full Swing represents the pinnacle of high-end, realistic golf simulation ("Full Swing Golf," n.d.). The program currently runs two of these simulators and they a lot of student use, especially in the winter months. The two units housed in Keim currently run the TruGolf LS3 version, which is about twelve years old ("Tru Golf," 2017). In May of 2017, they are scheduled for a makeover, moving to the industry standard E6 version. This version features new ball and club tracking technology using infrared lasers and high speed Ion Camera systems to give accurate, detailed

information on club delivery and ball behavior resulting in the very best in simulation technology.

**JC Video.** JC Video is an established leader in a section of the industry that changes extremely fast (“JC Video Systems,” 2017). Just about the time that many golf instructors were realizing the need and value of a high end video system for swing analysis, smart phones and tablets with great cameras were making their way onto the scene. Throughout the history of the program, JC Video has been there to keep current technology in front of students. When the simulation labs were first built, a JC Video system was installed in one of the bays. This system involved a laptop computer and two cameras, which record simultaneously to supply views from different angles. These will be upgraded along with the new simulation equipment from Full Swing. JC Video has also provided tremendous support to students by making available its high-end Digital Mirror Ultimate software to all students.

In 2010, along with the renovation of Keim Hall, came the installation of the PGA Teaching Lab. The Teaching Lab is home to many technologies, and sitting at the center of this lab space is JC Video. The people at JC Video worked with the program to develop a truly one-of-a-kind system, incorporating a new level of high-speed video. Software was custom written on the JC Video platform to handle the Phantom V210 camera system. The Phantom captures full resolution video at an incredible 2,200 frames per second and 7,000 frames per second at standard definition (“Phantom High Speed Cameras,” 2017, “Phantom V210,” n.d.). This incredible technology allows the user to see the swing and things like the club impacting the golf ball with a huge amount of detail. Students are able to manipulate the camera through the familiar JC Video

software. This coupling of industry standard software with a camera system that has not yet made its way into the golf instruction industry and the program serves as the beta tester of technology that will one day be ever-present.





## DATA SHEET



### v210

- 1 Megapixel at over 2000 fps
- Widescreen 1280 x 800 resolution
- Maximum speed 300,000 fps
- Minimum shutter 2  $\mu$ s
- Phantom CineMag<sup>®</sup> compatible

**Key Benefits:**

**WHEN IT'S TOO FAST TO SEE, AND TOO IMPORTANT NOT TO<sup>®</sup>**

You asked for it – the Phantom v210. A one **megapixel digital high-speed camera capable of taking more than 2000 frames-per-second (fps)** at full 1280 x 800 resolution. And, up to 300,000 fps at reduced resolution.

**Take the wide view** with our custom-designed 1280 x 800 CMOS sensor. The wide aspect ratio of the v210 – 25% wider than square cameras – allows you to keep moving targets in-frame longer and see more of the event you are recording. The v210's widescreen aspect ratio also provides the unique ability to shoot 1280 x 720 HD with a one megapixel camera.

With an active pixel size of 20 microns and improved quantum efficiency, the Phantom v210 camera has **sensitivity you need** for even the most challenging lighting conditions.

You can eliminate blur and see the most minute detail by using **short exposure times**. On the v210, you can set the exposure to as little as 2 microseconds.

The camera supports **8- and 12-bit pixel depth**. Smaller bit-depth gives you more recording time and smaller files. Greater bit-depth gives you more gray levels and finer detail. With the greater latitude of 12 bits, you can pull more detail out of the image.

**Key Features:**

- Custom-designed 1280 x 800 CMOS sensor
- Over 2000 frames-per-second (fps) at full-resolution
- High-resolution timing system: Better than 40ns resolution
- Extreme Dynamic Range (EDR): two different exposures within a single frame
- Optional Interval Shutter: hands-free/remote current session reference (CSR)
- Memory Segmentation: Up to 64 segments
- Non-volatile, hot-swappable Phantom CineMag memory magazines
- CineMag to CineStation<sup>®</sup>
- Range Data input
- Built-in Memory: 8 GB, 16 GB, 32 GB
- ISO (ISO-12232 SAT): 8400 Mono, 1800 Color
- Pixel Bit-depth: 8- and 12-bit
- Gb Ethernet
- View recordings immediately via video-out port
- 4:2:2 HD-SDI output

Figure 88: Vision Research Phantom V210 Fact Sheet

**Launch Monitors.** A camera like the Phantom is great but it helps to have other technologies that actually measure impact and provide data. The Phantom could be used to capture some of this data, but it would be cumbersome and would severely limit the versatility of the overall system. There are several ways that launch data can be collected. In the industry exists; Doppler radar, cameras (photometrics) and infrared lasers. The Full Swing bays currently housed in the program use the infrared laser method and the updated versions will also incorporate a camera in the ceiling to add some detail and accuracy. To date, the other technology that has been utilized is Doppler radar. When the Teaching Lab was installed, it was equipped with a FlightScope branded Kudu unit. In 2015 the Kudu unit (on loan from FlightScope) was replaced by a University owned FlightScope X2 unit. The X2 provided better accuracy and featured wireless operation allowing students to utilize mobile devices to operate the hardware. This included the use of an app that allows students to test their skills in a game-like environment and evaluates parts of the game that need improvement (“FlightScope X2,” 2017).

Coming with the near-future upgrades is another Doppler radar system developed by TrackMan. TrackMan has been the leader in Doppler tracking of the club head and golf ball from the beginning of use of the technology in the industry (“TrackMan Golf,” 2017). They have recently released a dual Doppler system which allows for tracking of the club head separate from the golf ball and also allows for tracking of short chips/pitches and even putting.

Also coming in the upgrade is the implementation of the ForeSight Sports GCQuad launch monitor. This is a photometric based launch monitor and is the first to use four integrated cameras to not only track the ball but also to directly measure club



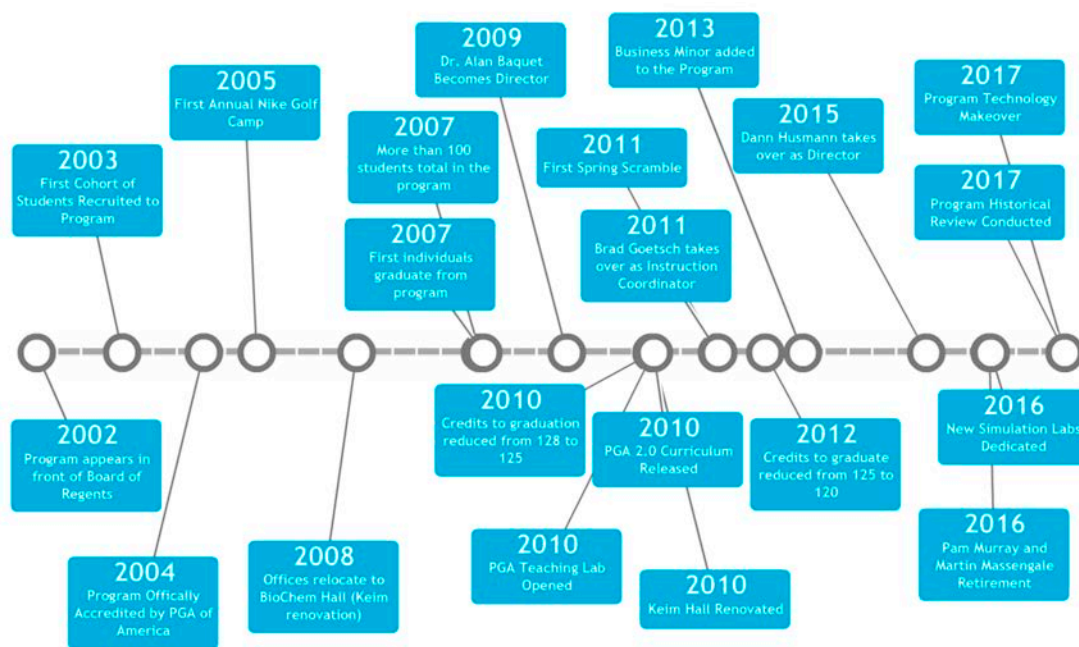
head position before, during and after impact. This, along with our camera and Doppler, gives us the ability to truly track and measure everything and really have the best of all worlds (Foresight, 2017).

**3D Systems.** 3D systems are making a big entrance onto the stage of golf instruction in the golf industry. Brand new to the program here in early 2017 is the MySwing 3D system. This system expands on what the K-Vest system has brought to the program. K-Vest (introduced in late February, 2104) utilizes three inertial motion sensors placed on the body (upper body, lower body and hand) to render a 3D model of the golf swing and to measure movement (“K-Vest,” 2017). The new MySwing Professional System goes about fifteen steps beyond that and places eighteen sensors on the golfer and club (Head, 2 shoulders, ribcage, 2 upper arms, 2 lower arms, both hands, pelvis, both upper legs, both lower legs, both feet and one on the club). This vast array of sensors communicates with a computer to build a three dimensional avatar of the player’s swing. This is viewable from every angle with measurement data on every movement provided (“MySwing Professional,” 2017).

## **Chapter VI: Conclusions**

This review provides a comprehensive snapshot of the program and how it got to where it is today. It is amazing how many things have changed and how the program has evolved over its relatively short existence. As we view the program from the year 2017, we can look back at the things that have been done and reminisce. We can try to take what has happened and learn from it. We seek to understand why things happened the way they did and why changes may have been for the better or worse. We can also use this information to look forward to the future and try to predict positive change.

Looking at the data collected in this study, it seems apparent that the leadership exhibited by those close to the program had a significant impact on the way the program evolved. Dr. Riordan's turf background helped to cement the program into its place in the College of Agricultural Sciences and Natural Resources. Dr. Baquet's background in Business, Economics and Leadership helped to provide direction to the program through the middle years of its current existence. Dr. Husmann's background in teacher education is providing support toward achieving the learning outcomes that students will need as they embark on careers as golf professionals. Dr. Massengale had a tremendous positional influence that helped launch the progra. It would be expected that similarly strong leadership will be necessary as the program moves toward the future.



**Figure 89: Timeline of the Program at UNL (Graphic: Author's Own)**

### **Future Vision of the Program**

The vision of the future of the program may vary slightly depending on to whom you talk, but within the program at UNL it is fairly uniform. This uniformity in vision is a strong point of the current team here as it indicates that all parts are moving toward a common goal.

There is a lot of positive momentum in the program right now. Tremendous support from CASNR and the Institute show there is a lot of faith in our program. The vision at this point is centered on two areas. Continued improvement of student/faculty/staff interaction (in terms of quality and quantity) and overall growth of

the program in these areas. The momentum and mechanisms are present for the first with the need to just make sure we keep focus being the main goal.

In terms of program growth, the good news is that it is not growth for the sake of growth, which can often prove to do more harm than good. The need for growth stems from the demand coming from the industry for high quality graduates to fill positions within the industry. This demand is evident at events like the PGA Merchandise show where facilities are screaming for interns and graduates to fill positions and there are few if any interns or graduates left to place. From the show and from the phone/electronic communication lines there are many great positions that are being left unfilled. While this sounds like a good thing, and often plays out that way for some of our students, it is in fact a problem because it shows a tremendous missed opportunity. We could be further executing our mission of helping people to realize the fulfillment that comes from turning a passion into a career.

The program currently has just over 100 students. This number is down from a reported 173 at peak enrollment during the Fall 2009 semester. A couple of things may contribute to this. First, it makes sense given the overall enrollment trends across all universities (Walker, Salaga, Cunningham, Keiper, & Batista, 2016). Numbers are showing nearly every program down from a peak at this point in time. Also, over the last few years, considerable effort has been made to “clean up” the roster a bit. This effort comes from within the program and with encouragement from the PGA. What it means to “clean up” the roster is to remove students who have been inactive for more than a semester or two, depending on student plans and the ability to communicate with them. The cleaning issue is of less concern than any other reasons that may exist for why



numbers are down. Other possible reasons include: lack of awareness, perceived trouble in the golf industry and perceived lack of income available to graduates just to name a few. We are in the process of formulating plans to address each of these and really put a positive trend on our numbers and begin to adequately meet the demand that exists.

Growth comes with its own challenges. As the program looks toward increasing enrolment toward a goal of around 200 students by around 2021 (as an example), care must be taken to remain aware of things like the availability of facilities (classroom space and lab space), the availability of our faculty and staff, the financial resources needed to support a student base nearly twice the size of the current one.

The technology upgrades mentioned earlier will be a huge driving force behind reaching these goals and producing the highest quality members of the PGA possible. There is no question that students do and will continue to find our facilities and the technologies offered to be highly appealing and just another great reason to choose Nebraska. It's reasonable to believe that the facilities and people running this program are and will continue to contribute directly to a great overall retention of students in the program. Finally, the design of the program, the support of the University of Nebraska and CASNR for the program, the people on the ground running the program and the technology available to the students is putting the students in the best possible position for success in the golf industry or in any other industry should they decide to go that way. I see no reason that this should change and expect it to improve even more over the coming years.

**PGA Curriculum.** On the horizon there is the possibility (and perhaps inevitability) of re-vamping of the PGA of America's curriculum (possibly a 3.0

program). There is currently an ad-hoc group of program directors working on formulating possible future iterations of the program (Dann Husmann, personal communication, 2017) Whatever this re-vamping consists of, it will have significant impacts on the PGA Golf Management program at the University of Nebraska and the students who major in the program. It is certain that change is inevitable and the partnership with the PGA of America along with their dedication to utilizing input from those who run the programs to help the curriculum evolve and stay relevant in an ever-changing industry is highly valuable.

**The University of Nebraska PGA Curriculum.** There is also certainty that the curriculum within the major at UNL will change. In the past, every attempt has been made to be vigilant to students' needs as well as to what will make them more marketable as professionals in the industry. The Business Minor was mentioned previously, and this serves as an example of how the curriculum evolves to meet the needs of students in general. Along these lines, an increasing number of students are becoming interested in a minor in Hospitality, Restaurant and Tourism Management (HRTM). With the recent addition of a Club Management Class within this department and the interest from the industry in hiring individuals who are prepared to take on the management of the entire club (beyond the golf operation), there is an opportunity to add an HRTM Minor option to the program. One would theorize that this will be well received among students and the industry alike.

### **Final Thoughts**

It is important that we look backward as we move forward so as to repeat and enhance our successes, progress and do not regress. Throughout its short time in

existence, the program has seen a lot of success. There has also been a lot of change. That is not to say that the old way was bad, but that there are always better ways of doing things. Here in 2017, there is a lot of positive momentum and energy surrounding the Program, the University, the PGA of America and the golf industry as a whole. We should look to leverage this momentum and use it to propel ourselves into the future.

It will be interesting to look back in another ten years or so and revisit this historical analysis with the intention of adding a whole new list of great activities, achievements, and progress to it. The intention from the very onset of this review was to keep looking back at our history so as to more effectively shape the future.

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## Appendix A: PGA/PGM 1.0 and 2.0 Work Experience Checklists

This appendix outlines the work experience activities required within the 1.0 and 2.0 programs. This gives a solid overview of each curriculum.

### 1.0

## WORK EXPERIENCE ACTIVITIES – LEVEL 1

#### CONSTITUTION

- ☐ Complete Section 4 Activities to prepare for the test.

#### RULES OF GOLF

- ☐ 1: Defining and Marking the Golf Course
- ☐ 2: Rules Committee Volunteer
- ☐ 3: Rules Officiating at a Local Tournament
- ☐ 4: Rules Tips and Newsletter Article
- ☐ 5: Rules Clinic on Equipment
- ☐ 6: Rules Clinic on the Course

#### TOURNAMENT OPERATIONS

- ☐ 1: Tournament Concepts and Formats
- ☐ 2: Tournament Budgets
- ☐ 3: Tournament Staffing
- ☐ 4: Tournament Publicity
- ☐ 5: Critique of Facility Preparations
- ☐ 6: Golf Course Preparation
- ☐ 7: Preparing for the People
- ☐ 8: Health and Safety Issues
- ☐ 9: Preparation, Execution and Follow Up
- ☐ 10: Tournament Operations Software – ScoreCast (12 reports)

#### GOLF CAR FLEET MANAGEMENT

- ☐ 1: Defining Golf Car Fleet Staff Responsibilities
- ☐ 2: Analyze Golf Car Needs
- ☐ 3: Evaluate Golf Cars
- ☐ 4: Investigate Lease vs. Buying
- ☐ 5: Compare Fees and Special Deals
- ☐ 6: Exploring Operational Procedures
- ☐ 7: Maintaining the Fleet
- ☐ 8: Acquiring the Golf Car Fleet Concessions

## GOLFER DEVELOPMENT PROGRAMS

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | <b>Design</b>                                     |
| <input type="checkbox"/> | Step 1: Identify Needs and Possibilities          |
| <input type="checkbox"/> | Step 2: Develop Ideas                             |
| <input type="checkbox"/> | Step 3: Develop Program Objectives                |
| <input type="checkbox"/> | <b>Planning</b>                                   |
| <input type="checkbox"/> | Step 1: Evaluate the Audience                     |
| <input type="checkbox"/> | Step 2: Select Appropriate Activities             |
| <input type="checkbox"/> | Step 3: Identify and Obtain Necessary Resources   |
| <input type="checkbox"/> | Step 4: Determine How to Promote the Program      |
| <input type="checkbox"/> | Step 5: Prepare a Budget                          |
| <input type="checkbox"/> | Step 6: Plan the Activities                       |
| <input type="checkbox"/> | Step 7: Develop a Schedule of Activities          |
| <input type="checkbox"/> | Step 8: Identify Possible Problems                |
| <input type="checkbox"/> | Step 9: Develop a Plan for Evaluating the Program |

## GOLF CLUB DESIGN AND REPAIR

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | 1: Club Repair and the Golf Professional                     |
| <input type="checkbox"/> | 2: Removing the Original Shaft from an Iron or Metal Wood    |
| <input type="checkbox"/> | 3: Installing a New Shaft in a Hosel                         |
| <input type="checkbox"/> | 4: Measure and Adjust the Lie of an Iron                     |
| <input type="checkbox"/> | 5: Measure and Adjust the Loft of an Iron                    |
| <input type="checkbox"/> | 6: Finish a Ferrule  |
| <input type="checkbox"/> | 7: Cut a Club to Length                                      |
| <input type="checkbox"/> | 8: Install a Hosel Pin (optional)                            |
| <input type="checkbox"/> | 9: Regrip a Club   |
| <input type="checkbox"/> | 10: Measure and Change a Club's Swingweight                  |
| <input type="checkbox"/> | 11: Assemble a Metal Wood or Iron                            |
| <input type="checkbox"/> | 12: Shaft Flex, Weight, Torque, and Flex Point               |
| <input type="checkbox"/> | 13: Impact of Lie on Ball Flight                             |
| <input type="checkbox"/> | 14: Understanding Loft, Bulge, and Roll of Woods             |
| <input type="checkbox"/> | 15: Setting up and Running a Profitable Club Repair Facility |
| <input type="checkbox"/> | 16: Promoting and Advertising a Club Repair Facility         |

## CAREER ENHANCEMENT

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | 1: Identifying the Right Job for You: Projecting a Professional Image    |
| <input type="checkbox"/> | 2: Knowledge and Networking in your Area                                 |
| <input type="checkbox"/> | 3: Résumés, Cover Letters, Reference Material and Professional Portfolio |
| <input type="checkbox"/> | 4: Potential Interview Questions   |
| <input type="checkbox"/> | 5: Understanding Wages and Hour Laws and Labor Laws                      |

## INTRODUCTION TO TEACHING

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | 1: Research Teaching Styles and Methods     |
| <input type="checkbox"/> | 2: Research Learning and Skills Development |
| <input type="checkbox"/> | 3: Lesson Observations                      |
| <input type="checkbox"/> | 4: Conduct a Series of Lessons              |

## PRE-SEMINAR ACTIVITIES FOR LEVEL TWO

(All Activities below are required in your Level 1 Kit)

### ANALYSIS OF THE SWING

- ☐ Read this preseminar manual to prepare for the level 2 seminar.

### BUSINESS PLANNING AND OPERATIONS

- ☐ Lesson 2: Write/Revise a Mission Statement
- ☐ Lesson 4: Conduct a SWOT Analysis for Pinelake
- ☐ Lesson 6: Identify Objectives and Strategies for Pinelake
- ☐ Lesson 7: Analyze Past Data at Pinelake and Forecast Round and Revenue
- ☐ Lesson 7: Assess Effects of Inside and Outside Factors on Pinelake Forecast
- ☐ Lesson 8: Become More Familiar with Budget Process
- ☐ Lesson 11.1: Document your Facility's Organizational Setup
- ☐ Lesson 11.2: Write a Job Description
- ☐ Lesson 12: Critique Your Procedural Manual
- ☐ Lesson 14: Conduct a Technology Audit of Your Facility

### CUSTOMER RELATIONS

- ☐ 1.1: Your Experience of Customer Relations
- ☐ 1.2: Your Customer's Moment of Truth
- ☐ 1.3: What Your Customers Think
- ☐ 1.4: Improving Customer Satisfaction
- ☐ 1.5: Task-Relationship Exercise
- ☐ 2.1: Using the Model in Day-to-Day Interactions
- ☐ 2.2: Using the Model in Challenging Interactions
- ☐ 3.1: Stating Your Purpose Clearly
- ☐ 3.2: Providing a Compelling Rationale
- ☐ 3.3: Encouraging Open Expression
- ☐ 3.4: Showing Understanding
- ☐ 3.5: Inviting and Giving Specific Feedback
- ☐ 3.6: Reframing Difficult Situations
- ☐ 3.7: Acting With Integrity
- ☐ 4.1: Using the Directing Strategy
- ☐ 4.2: Using the Convincing Strategy
- ☐ 4.3: Using the Involving Strategy
- ☐ 4.4: Using the Supporting Strategy
- ☐ 4.5: Worksheet for Seminar Practice Scenario

## WORK EXPERIENCE ACTIVITIES – LEVEL 2

### ANALYSIS OF THE SWING SEMINAR

1. Conduct a Lesson Series
2. Develop a Business Plan for a Teaching Business
3. Evaluate Your Own Set of Clubs
4. Conduct Clubfitting Sessions
5. Evaluate Clubfitting Systems

### BUSINESS PLANNING AND OPERATIONS SEMINAR

Create a Complete Business Plan, Forecast and Budget for Pinelake
---

### CUSTOMER RELATIONS SEMINAR

1: Using Interpersonal Skills and Strategies
Part 1: Identify Your Strengths and Weaknesses
Part 2: Target Opportunities for Practice
Part 3: Rehearse the Skills and Strategies with Others
Part 4: Arrange for Feedback and Peer Support
Part 5: Identify Steps You Can Take Immediately
2: Handling A Challenging Customer Situation

### BUSINESS COMMUNICATIONS

1: The Writing Plan
Part 1
Part 2
2: Drafting a Letter or Memo
3: Writing Informational Material
4: Promotional and Announcement Writing
5: Schedules, Notices, and Signs
6: Rules and Forms
7: Principles of Clear Language, Grammar, and Punctuation

### TURFGRASS MANAGEMENT

1: Interview With the Golf Course Superintendent
2: Touring the Golf Course Maintenance Facility
3: Turfgrass Basics at Your Facility
4: Routine and Non-routine Maintenance Practices
5: Traffic Management
6: Pests and Other Problems at Your Facility
7: Golf Courses and the Environment
8: Communicating with the Superintendent
9: Communicating with the Customer



## ELECTIVES

Apprentices are required to complete two electives, one of which must be a PGA elective. Two outside electives (CPR/First Aid or Public Speaking) are conducted by organizations outside the PGA. Electives can be completed in either Level 2 or Level 3.

### CADDIE PROGRAM MANAGEMENT

	1: Review Article About Caddie Programs
	2.1: Caddie Committee Member Interview
	2.2: Caddie Master Interview
	3.1: Outline a Caddie Recruitment Program
	4.1: Caddie Training Course Review
	4.2 Caddying a Loop of Golf
	5: Making Caddie Assignments
	6: Caddie Rating and Compensation
	7.1: Caddies and the Law
	7.2: Plan a Caddie Banquet (optional)

### GOLF RANGE MANAGEMENT

	1: Article Research
	2: Competitive Course Observation Checklist
	(Observe four golf ranges)

### GOLF FACILITY DESIGN

	1: Evaluate Your Facility's Design Needs
	Sketch of Golf Shop Floor Plan
	Photos of Golf Shop Areas Analyzed
	Three Design Worksheets

### GOLF COURSE DESIGN

	1: The Process at Your Facility
	2: The Team at Your Facility
	3: The Functioning of Your Course
	4: The Form at Your Facility
	5: Innovative Environmental Programs in Your Area

---

## PRE-SEMINAR ACTIVITIES FOR LEVEL 3

**(All Activities below are required in your Level 2 Kit)**

### PHILOSOPHY AND SWING CONCEPTS OF TEACHING PRE-SEMINAR

	1: Personal Teaching Philosophy Statement
--	---

### MERCHANDISE AND INVENTORY MANAGEMENT PRE-SEMINAR

	1.1: Explore OTB Practices
	2.1: Compare Two Product Lines
	3.1: Document the Profile of an Outstanding Vendor
	4.1: Explore Pricing Methods
	5.1: Learning from a Backroom War Story
	6.1: Evaluate a Merchandise Display
	7.1: Describe a Successful Golf Shop Promotion
	8.1: Describe Your Inventory Control System
	9.1: Analyze One Performance Variance

### SUPERVISING & DELEGATING PRE-SEMINAR

	1: Performance Expectations
	2: Resources
	3: Input
	4: Feedback
	5: Consequences
	6: Convincing Strategy
	7: Involving Strategy
	8: Supporting Strategy

## WORK EXPERIENCE ACTIVITIES – LEVEL 3

### PHILOSOPHY AND SWING CONCEPTS OF TEACHING SEMINAR

1: Seminar Learning Journal
2: Developing a Personal Teaching Philosophy Statement
3.1: Using the Group Lesson Plan on Putting
3.2: Using the Putting Evaluation Matrix
3.3: Giving the "How Well Should you Putt?" Test
4.1: Using the Socratic Method to Teach Basic Chipping Technique
4.2: Using the Three Suggestions to Improve the Basic Pitch
5.1: Using the Greenside Bunker Lesson Plan
5.2: Working With Fearful Students to Improve Bunker Play
6.1: Working With Uneven Lies
6.2: Dealing With Windy Conditions
7: Conducting a Group Lesson
8.1: Conducting a Lesson Series
8.2: Working With Women Golfers
8.3: Working With a Physically Challenged Golfer
9.1: Physical Training for Golf
9.2: Golf Flexibility Exercises
9.3: Exercises for the Lower Back

### SUPERVISING AND DELEGATING SEMINAR

1: Diagnosing a Performance Problem
2: Conducting a Joint Problem Solving Discussion
3: Designing a Motivating Assignment
4: Delegating an Assignment

### MERCHANDISING AND INVENTORY MANAGEMENT SEMINAR

1: Creating the Open-to-Buy Plan
2: Merchandise Assortment Plan
3: Pricing Merchandise
4: Monitoring Sales and Inventory
5: Displaying Merchandise for Sale

### FOOD AND BEVERAGE CONTROL

1: Identifying the Benefits of the Food and Beverage Operation
2: Day-to-Day Involvement of the Golf Professional
3: Conducting a Customer Survey
4: Identifying the Appropriate Levels of Food and Beverage Services at your Facility
5: Shopping your Competition
6: Developing a Labor Pro-Forma
7: Developing an Estimated Potential Costs Chart
8: Receiving and Storage Review
9: Food and Beverage Regulations in your Community

## 2.0

**LEVEL 1 TABLE OF CONTENTS****INTRODUCTION****PORTFOLIO INTRODUCTION****CASE STUDY ACTIVITIES INTRODUCTION**

Activity 1: Business Planning Phase 1 - Define the Business

Activity 2: Business Planning Phase 2 - Assess the Current State of Business

Activity 3: Business Planning Phase 3 - Develop Objectives and Related Strategies

Activity 4: Business Planning Phase 4 - Develop a Financial Forecast and Budget

Activity 5: Business Planning Phase 5 - Monitoring Performance

Activity 6: The Business Value of Effective Customer Relations

Activity 7: Develop a Tournament Business Plan

Activity 8: Develop a Golf Car Fleet Business Plan

**ACTIVITIES AT MY OWN FACILITY: CUSTOMER RELATIONS INTRODUCTION**

Activity 1: Moments of Truth at My Own Facility

Activity 2: Strategies and Skills at My Own Facility

Activity 3: Improving Positive Engagement Routines at My Own Facility

**ACTIVITIES AT MY OWN FACILITY: TOURNAMENT OPERATIONS INTRODUCTION**

Introduction to Activities -3

Activity 1: Plan and Prepare for a Tournament Event at My Own Facility

Activity 2: Run the Tournament at My Own Facility

Activity 3: Review and Evaluate the Tournament at My Own Facility

**ACTIVITIES AT MY OWN FACILITY: GOLF CAR FLEET INTRODUCTION**

Introduction to Activities 1-4

Activity 1: Analyze Fleet Policies and Procedures at My Own Facility

Activity 2: Explore Maintenance and Storage Practices at My Own Facility

Activity 3: Analyze Customer Satisfaction and Financial Performance at My Own Facility

Activity 4: Prepare the Final Report for My Own Facility

**LESSON SERIES: INTRODUCTION TO TEACHING AND GOLF CLUB PERFORMANCE**

Activity 1: Interview, Observations and Assessment

Activity 2: Lesson 1

Activity 3: Lesson 2

Activity 4: Lesson 3

Activity 5: Evidence for Learning

## **LEVEL 2 | TABLE OF CONTENTS**

### **INTRODUCTION**

### **GOLF OPERATIONS**

Activity 1: Creating a Promotional Strategy Using Your Case Study

Activity 2: Defining and Aligning the Golf Operation with the Business Plan at Your Own Facility

Activity 3: Assessing a Promotional Strategy at Your Own Facility

Activity 4: Coordination and Collaboration at Your Own Facility

Activity 5: Evaluating Operational Practices Linked to Pace-of-Play at Your Own Facility

Activity 6: Yield Management at Your Own Facility

### **MERCHANDISING AND INVENTORY MANAGEMENT**

Activity 1: Phase 1 - Define the purpose and connection of the merchandise operation to the facility mission at Your Own Facility

Activity 2: Phase 1 - Analyze historical performance data and information on current trends at Your Own Facility

Activity 3: Phase 1 - Develop a comprehensive buying plan, including an OTB plan, a MAP, and vendor selection at Your Own Facility

Activity 4: Phase 2 - Describe how inventory will be purchased and received at Your Own Facility

Activity 5: Phase 3 - Describe how the inventory will be displayed and managed on the floor at Your Own Facility

Activity 6: Phase 4 - Develop a promotional plan for a single event. Describe the selling process, including, including any training required and special techniques used at Your Own Facility

Activity 7: Phase 5 - Describe how performance will be monitored and adjustments made if required at Your Own Facility

### **TURFGRASS MANAGEMENT**

Activity 1: Turfgrass at a Case Study Facility

Activity 2: Interview the Course Superintendent at Your Own Facility

Activity 3: Communications and Course Conditions at Your Own Facility

Activity 4: Scheduled Maintenance at Your Own Facility

Activity 5: Sustainable Practices at Your Own Facility

Activity 6: Functional Course Design Your Own Facility



**INTERMEDIATE TEACHING AND GOLF CLUB ALTERATION**

Activity 1: Develop and Conduct a Group Instructional Program

Activity 2: Physical Fitness Evaluation and Summary

Activity 3: Measure and Alter a Set of Golf Clubs

**LEVEL 3 TABLE OF CONTENTS**INTRODUCTIONFOOD AND BEVERAGE CONTROL

Activity 1: Benefits of the Food and Beverage Operation at Your Own Facility

Activity 2: Coordination of Food and Beverage Operations with the Golf Operation at Your Own Facility

Activity 3: Customer Service and the Food and Beverage Operation at Your Own Facility

Activity 4: Estimating Food Costs at Your Own Facility

Activity 5: Developing a Labor Pro Forma at Your Own Facility

Activity 6: Receiving and Storage at Your Own Facility

HUMAN RESOURCES MANAGEMENT AND SUPERVISING AND DELEGATING

Activity 1: Job Descriptions and Interviews at the Saguaro Sands Case Study Facility

Activity 2: Hiring Staff at Your Own Facility

Activity 3: Staff Training Program to Create a Welcoming Environment at Your Own Facility

Activity 4: Diagnosing a Performance Problem at Your Own Facility

Activity 5: Conducting a Joint Problem Solving Discussion at Your Own Facility

Activity 6: Designing a Motivating Assignment at Your Own Facility

Activity 7: Delegating an Assignment at Your Own Facility

Activity 8: Performance Standards and Evaluations at Your Own Facility

PLAYER DEVELOPMENT AND TEACHING BUSINESS

Activity 1: Design and Implement a Player Development Program at Your Own Facility

CAREER ENHANCEMENT

Activity 1: Identifying a Position for Career Enhancement

Activity 2: Creating a Resume and Cover Letter

Activity 3: Conducting an Informational Interview

Activity 4: Identifying the Next Steps for Professional Development

ADVANCED TEACHING AND GOLF CLUB FITTING

Activity 1: Plan and Conduct a Five Lesson Series with an Advanced Golfer

Activity 2: Conduct a Fitness Evaluation and Recommend Fitness Training

Activity 3: Conduct a Club Fitting

## Appendix B: UNL PGA Golf Management Undergraduate Bulletins

### 82 College of Agricultural Sciences and Natural Resources/Professional Golf Management

<b>Communication</b> .....9	
Written Communication.....3	
Select from: ENGL 150, 151, 254; JGEN 120, 200, 300	
Oral Communication.....3	
Select from: COMM 209, 311; ALEC 305	
Communication and Interpersonal Skills Elective...3	
Select from: Any communication above, ALEC 102, 202; COMM 109	
<b>Natural Sciences</b> .....23	
AGRO 315 Genetics.....4	
BIOC 221 Intro to Biochemistry.....3	
BIOS 101/101L General Biology/Lab or 109	
General Botany or 112/112L Intro to Zoology	
/Lab.....4	
CHEM 109 General Chemistry I.....4	
CHEM 110 General Chemistry II.....4	
MSYM 109 Physical Principles of Agriculture or	
PHYS 151 Elements of Physics.....4	
<b>Humanities and Social Sciences</b> .....18	
ECON 212 Principles of Microeconomics or AECN	
141 Intro to the Economics of Agriculture.....3	
Essential Studies.....15	
Select one 3-credit course in each of the following five	
CASNR Essential Studies categories: (For the list	
of ES/IS courses see "Essential Studies Program	
List" on page 15.)	
C. Human Behavior, Culture & Social Organization	
E. Historical Studies	
F. Humanities	
G. Arts	
H. Race, Ethnicity & Gender	
<b>NOTE:</b> One 3-credit course with an international	
focus is to be selected from the lists under "International	
Agriculture and Natural Resources Minor" on	
page 62 which counts towards CASNR ES/IS	
requirements.	
<b>Agricultural Sciences</b> .....40	
Animal Science.....15	
ASCI 100 Fundamentals of Animal	
Biology.....4	
ASCI 240 Anatomy & Physiology of	
Domestic Animals.....4	
ASCI 320 Animal Nutrition & Feeding.....3	
ASCI 330 Animal Breeding or 341	
Physiology & Management of	
Reproduction.....4	
Agronomy/Range/Soils.....14	
AGRO/SOIL 153 Soil Resources.....4	
AGRO/RNGE 240 Forage Crop & Range	
Management.....4	
AGRO/RNGE 340 Range Management &	
Improvement.....3	
AGRO/RNGE 440 The Range Ecosystem.....3	
Agricultural Economics.....10	
AECN 201 Farm & Ranch Management...4	
AECN 325 Marketing of Agricultural	
Commodities or 225 Intro to Agribusiness	
Marketing.....3	
AECN Elective.....3	
Select from: AECN 256 Legal Aspects in	
Agriculture, 265 Resource & Environmental	
Economics, 301 Farm Accounting,	
Analysis & Tax Mgt, 357 Natural	
Resources & Environmental Law, 401	
Advanced Farm Management & Linear	
Programming, 452 Agricultural Finance, 453	
Appraisal of Farm Real Estate	
ASCI/AGRO 496 or AECN 399 Independent	
Study.....1	
<b>GRAS 489 Grazing Livestock Systems</b>	
<b>Internship</b> .....3	
To be planned with adviser. Contract form required	
before registering.	
<b>Supporting Courses</b> .....12	
ACCT 201-202 Introductory Accounting; any	
AECN from above electives, AECN 399 Independent	
Study, AGRO 204 Resource-Efficient	
Crop Management, 360 Applied & Environmental	
Microbiology, 435 Agroecology, AGRO/	
RNGE 442 Range Plants, 444 Rangeland Analysis,	
496 Independent Study, AGRO/SOIL 477	
Great Plains Field Pedology, ASCI 210 Animal	
Products, 341 Physiology & Management of	
Reproduction, 399 Independent Study, 420	
Advanced Feeding & Feed Formulation, 453	
Dairy Management, 455 Beef Cow/Calving	

Management, 457 Beef Feedlot Management, 485 Animal Systems Analysis, 490A Beef Feedlot Management Internship; NRES 211 Wildlife Biology & Conservation, 323 Natural Resources Policy, 423 Integrated Resources Management; VBMS 303 Principles & Prevention of Livestock Diseases

**Free Electives**.....12  
**Total for Graduation**.....128

### Professional Golf Management

**Director:** Terrance P. Riordan, 219 Keim Hall  
**Faculty Advisory Committee:** Balke (accounting); Heng-Moss (entomology); Horst, Shearman (horticulture); Schnepf (nutritional science and dietetics)

The Professional Golf Management major is designed for students who wish to be educated in all aspects of the golf industry. This comprehensive program blends college academic requirements with requirements of the Professional Golfer's Association of America's Professional Golf Management Program (PGA/PGM™), and includes structured internship experiences. The purpose of the program is to produce a graduate that has a basic background in managing golf facilities and related organizations, business and personnel management, restaurant and hospitality management, recreation, and golf instruction methods.

In February 2004, this became the 15th PGA/PGM program to be accredited by the PGA™.

### CASNR Requirements

<b>College Integrative Courses</b> .....6	<b>Hours</b>
AGRI/NRES 103 Intro Agricultural & Natural	
Resource Systems.....3	
PGMP 489 Integration (capstone course).....3	
<b>Mathematics and Statistics (beyond college</b>	
<b>algebra)</b> .....5	
Select from: MATH 102, 104, 106 and STAT 218	
<b>NOTE:</b> Proficiency at the college algebra level must be	
demonstrated either by a placement exam or through	
course work. If MATH 103 is taken, only 2 cr hrs can	
be counted toward this requirement.	
<b>Communications</b> .....9	
Written Communication.....3	
Select from: ENGL 150, 151, 254; JGEN 120,	
200, 300	
Oral Communication.....3	
Select from: COMM 109, 209, 212, or 311	
ALEC 102 Interpersonal Skills for Leadership.....3	
<b>Natural Sciences</b> .....12	
BIOS 101 & 101L General Biology & Lab.....4	
or BIOS 109 General Botany	
CHEM 109 General Chemistry I.....4	
PHYS 151 Elements of Physics.....4	
or MSYM 109 Physical Principles in	
Agriculture	
<b>Humanities and Social Sciences</b>	
<b>(requirements for ES and IS)</b> .....18	
ECON 211 Principles of Macroeconomics.....3	
Essential Studies.....15	
Select one 3-credit course in each of the following five	
CASNR Essential Studies categories: (For the list	
of ES/IS courses see "Essential Studies Program	
List" on page 15.)	
C. Human Behavior, Culture & Social Organization	
E. Historical Studies	
F. Humanities	
G. Arts	
H. Race, Ethnicity & Gender	

**NOTE:** One 3-credit course with an international focus is to be selected from the lists under "International Agriculture and Natural Resources Minor" on page 62.

### PGM Degree Requirements

<b>Business (College of Business Admin)</b> .....19	<b>Hours</b>
ACCT 201 Intro Accounting I.....3	
ACCT 202 Intro Accounting II.....3	
FINA 361 Finance.....3	
MGNT 150 Business Computer Applications.....1	
MGNT 320 Principles of Management.....3	
MGNT 361 Personnel/Human Resource	
Management.....3	
MRKT 341 Marketing.....3	
<b>Plant Sciences (CASNR)</b> .....11	
AGRO 131 and 132 Intro to Agronomy and Lab	
or HORT 130 Intro to Horticulture.....4	
AGRO 153 Soil Sciences.....4	
HORT 327 Turfgrass Management.....3	
<b>Food Service Management (Human</b>	
<b>Resources and Family Sciences)</b> .....9	
NUTR 372 Food Safety & Sanitation.....3	
NUTR 374 Menu & Service Management.....2	
NUTR 474 Food & Beverage Management.....4	
<b>Supporting Course</b> .....11	
ATHC 350 Coaching Effectiveness.....3	
PGMP 101 Intro to Professional Golf	
Management.....2	
PGMP 201 Professional Golf Management	
Program: Level 1.....2	
PGMP 301 Professional Golf Management	
Program: Level 2.....2	
PGMP 401 Professional Golf Management	
Program: Level 3.....2	

### Electives

*Specialization: Select 15 hours from the following major electives, with at least one course from three different areas, plus an additional 13 hours of free electives.*

<b>Major Electives</b> .....15	<b>Hours</b>
<b>Business</b>	
ECON 212 Principles of Microeconomics.....3	
MGNT 321 Business Plan Development.....3	
MGNT 331 Operations & Resources	
Management.....3	
MGNT 350 Intro to Management Information	
Systems.....3	
MGNT 421 Entrepreneurship & Venture	
Management.....3	
MRKT 345 Market Research.....3	
MRKT 347 Marketing Communication	
Strategy.....3	
MRKT 425 Retailing Management.....3	
MRKT 428 Sports Marketing.....3	
MRKT 442 Marketing Management.....3	
MRKT 443 Consumer Behavior: Marketing	
Aspects.....3	
<b>Leadership and Interpersonal Skills</b>	
ALEC 202 Leadership in Small Groups & Teams...3	
ALEC 302 Dynamics of Effective Leadership in	
Organizations.....3	
ALEC 410 Environmental Leadership: An	
Historical & Ethical Perspective.....3	
<b>Plant Sciences</b>	
AGRO 366 Soil Nutrient Management.....3	
ENTO 115 Insect Biology.....2	
ENTO 116 Insect Identification.....1	
ENTO 303 Horticultural Insects.....3	
HORT 200 Landscape & Environmental	
Appreciation.....3	
HORT 212 Landscape Plants I.....3	
HORT 425 Turfgrass Science & Culture.....3	
HORT 452 Irrigation Systems Management.....3	
PLPT 369 Intro to Plant Pathology.....3	

**Food Service**

NUTR 244 Scientific Principles of Food Preparation .....	3
NUTR 245 Scientific Principles of Food Preparation Lab .....	1
NUTR 370 Food Production Management .....	3
NUTR 371 Food Production Management Lab .....	1
NUTR 470 Cost Control for Food Service .....	2
NUTR 480 Tourism Resources & Development .....	3
<b>Free Electives .....</b>	<b>13</b>
<b>Total Credit Hours .....</b>	<b>128</b>

To meet PGA requirements, PGM students must:

- be formally accepted by written confirmation into the PGM Program;
- submit proof of USGA handicap of twelve (12) or lower or a letter verifying playing ability from a PGA professional or a high school golf coach;
- complete 16 months of internships in at least three different settings;
- participate in a Playing Ability Test each semester until the PAT is passed; and
- complete Level 3 of the PGA/PGM™ program prior to graduation.

Students are also expected to maintain a 2.5 grade point average, which is required for the College of Business Administration courses.

**Courses of Instruction (PGMP)**

**101. Introduction to Professional Golf Management (2 cr I) Lec.** Prereq: Formal acceptance into Professional Golf Management Program (PGMP). *Entry level course for students in or considering entering into PGMP.* Integration of academic and the Professional Golfers' Association (PGA) requirements.

**201. Professional Golf Management Program: Level 1 (2 cr I) Lec. 1, lab 1.** Prereq: Good standing in PGMP and PGMP 101. *Must register for PGMP 201 the semester after completion of the first PGMP internship.* Career enhancement, introduction to teaching, golfer development programs and other PGA requirements.

**301. Professional Golf Management Program: Level 2 (2 cr I) Lec.** Prereq: Good standing in PGMP; PGMP 201; and completion of PGA Level 1. *Must register for PGMP 301 the semester after completion of the second PGMP internship.* Customer relations, business planning and operations, turfgrass management and business communications.

**401. Professional Golf Management Program: Level 3 (2 cr II) Lec.** Prereq: Good standing in PGMP; PGMP 301; and completion of PGA Level 2. *Must register for PGMP 401 the spring semester after completion of the third PGMP internship.* PGMP 401 requires completing a resume, a par-portfolio and conducting a mock interview. Supervising and delegating, merchandise and inventory management, food and beverage control.

**489. Professional Golf Management Integration (3 cr I) Lec.** Prereq: Good standing in PGMP; PGMP 401; and completion of all PGA internships. *PGMP 489 is to be taken concurrently in the fall semester when completing PGA Level 3.* PGMP 489 requires an oral presentation and submission of a portfolio. *All academic and PGA requirements must be met to pass PGMP 489.* Capstone course for the PGMP major. Pulls together knowledge gained from the academic courses, internships and other aspects of the PGA/PGM Program.

**Horticulture**

**Head: Professor Kenneth G. Cassman**, Department of Agronomy and Horticulture  
**Professors:** Fitzgerald, Gustafson, Horst, Paparozzi, Read, Riordan, Shearman  
**Associate Professors:** Gausslin, Hodges, Rodie, Sutton  
**Assistant Professor:** Todd  
**Lecturer:** Lambie  
**Industry Partner/Instructor:** Simmons

Horticulture requires a broad education including knowledge of production, management, improvement, distribution, processing, and utilization of fruits, vegetables, ornamentals, and turf. Horticulture relies on an understanding of the basic sciences and involves competence in communication, aesthetic appreciation, and an awareness of consumer needs.

The following options are open to majors in horticulture: horticulture science, horticulture, management, production, landscape design, horticulture communications, horticulture business, and turfgrass.

Horticulture majors are encouraged to enroll for credit in one or more career experiences after completing two years of formal training. Internships provide invaluable exposure to commercial/professional horticultural enterprises, and should be arranged through advisers. Horticulture majors take horticulture courses on a graded basis.

Electives chosen from social sciences or humanities would be valuable to students considering careers in extension horticulture, horticultural therapy, or other people-oriented aspects of horticulture.

**Major Requirements**

The following basic courses are required for the horticulture major. In addition, students in the horticulture major must select and meet the requirements of one of the options, depending upon their particular needs and interests.

	Hours
<b>College Integrative Course .....</b>	<b>3</b>
AGRI/NRES 103 Food, Agricultural & Natural Resource Systems .....	3
Capstone Course: <i>See Option Requirement</i>	
<b>Horticulture .....</b>	<b>14</b>
AGRO/SOIL 153 Soil Resources .....	4
HORT 130 Intro to Horticulture .....	4
HORT 221 Plant Propagation .....	3
HORT 327 Intro to the Science of Turf Management .....	3
<b>Mathematics and Analytical Skills (beyond college algebra .....</b>	<b>5</b>
<i>Includes: mathematics and statistics. (See option requirements.)</i>	
<b>Communications .....</b>	<b>9</b>
Written Communication .....	3
<i>Select from:</i> ENGL 150, 151, 254; JGEN 120, 200, 300	
Oral Communication .....	3
<i>Select from:</i> COMM 109, 209, 212, 311	
Communications and Interpersonal Skills .....	3
<i>Select from:</i> ENGL 101, 102, 150, 252, 253, 254; ALEC 102; JGEN 120, 200, 300; COMM 109, 209, 212, 311	
<b>Natural Sciences .....</b>	<b>16-17</b>
BIOS 101 & 101L General Biology & Lab .....	4
BIOS 109 General Botany .....	4
CHEM 109 General Chemistry I .....	4
MSYM 109 Physical Principles in Agriculture .....	4-5
<i>or</i> PHYS 141 Elementary General Physics I (5 cr) <i>or</i> PHYS 151 Elements of Physics (4 cr) <i>or</i> PHYS 211 General Physics I (4 cr)	
<b>Humanities and Social Sciences .....</b>	<b>18</b>
ECON 211 Principles of Macroeconomics .....	3
<i>or</i> ECON 212 Principles of Macroeconomics <i>or</i> AECN 141 Intro to Economics of Agriculture	
<b>Essential Studies .....</b>	<b>15</b>
<i>Select one 3-credit course in each of the following five CASNR Essential Studies categories: (For the list of ES/IS courses see "Essential Studies Program List" on page 15.)</i>	
C. Human Behavior, Culture & Social Organization	
E. Historical Studies	
F. Humanities (AECN 388 recommended)	
G. Arts	

H. Race, Ethnicity & Gender (MNGT 361 recommended)

**NOTE:** One 3-credit course with an international focus is to be selected from the lists under "International Agriculture and Natural Resources Minor" on page 62 which counts towards CASNR ES/IS requirements.

**Total Major Requirements .....** 60-61  
**Option Requirements within the Major and Free Electives .....** 67-68  
**Total Requirement for Graduation .....** 128

**Landscape Design Option**

Students in the landscape design option are preparing for careers with nurseries, garden centers, or landscape contracting firms that design, plant, or install residential and commercial landscapes. Students choosing a landscape architecture minor are preparing themselves for graduate study in landscape architecture. For further details see the next page.

	Hours
<b>Capstone Course .....</b>	<b>4</b>
HORT 469 Senior Landscape Design .....	4
<b>Mathematics and Analytical Skills (beyond college algebra .....</b>	<b>5</b>
MATH 102 Trigonometry .....	2
One course beyond college algebra (includes statistics and mathematics) .....	3
<b>Agricultural Sciences .....</b>	<b>16</b>
HORT 200 Landscape & Environmental Appreciation .....	3
HORT 212 Landscape Plants I .....	3
HORT 213 Landscape Plants II .....	3
HORT 214 Herbaceous Landscape Plants .....	3
HORT 388 Career Experience .....	1
HORT 452 Irrigation Systems Management .....	3
<b>Horticulture and Natural Resource Electives ..</b>	<b>9</b>
<i>Select a minimum of 9 credit hours from the following courses:</i>	
AGRO 440 The Range Ecosystem .....	3
BIOS 220 Principles of Ecology .....	3
HORT 362 Nursery Crop Production Management .....	4
HORT 418 Agroforestry Systems in Sustainable Agriculture .....	3
HORT 425 Turfgrass Science & Culture .....	3
HORT 435 Agroecology .....	3
HORT 470 Landscape Management .....	3
HORT 489 Urbanization of Rural Landscapes .....	4
HORT 498 Topics in Landscape Architecture .....	1
MSYM 354 Soil Conservation & Watershed Management .....	3
NRES 310 Intro to Forest Management .....	4
NRES 424 Forest Ecology .....	4
NRES 468 Wetlands .....	4
<b>Construction and Design .....</b>	<b>18</b>
CNST 131 Intro to Construction Industry .....	3
HORT 265 Visual Communications for Landscape Design .....	3
HORT 266 Intro to Landscape Design .....	4
HORT 417 Site Context Issues .....	1
HORT 467 Planting Design .....	4
HORT 468 Intro to Landscape Construction .....	3
<b>Free Electives .....</b>	<b>15-16</b>
<b>Total Option Requirement .....</b>	<b>67-68</b>

**Landscape Management Option**

Landscape horticulture and management option graduates are qualified to manage private and public landscapes as a business. They also are trained to manage and implement landscape designs for the landscape and nursery industry.

	Hours
<b>Capstone Course .....</b>	<b>4</b>
HORT 470 Landscape Management .....	4
<b>Mathematics and Analytical Skills (beyond college algebra .....</b>	<b>5</b>
MATH 102 Trigonometry .....	2
One course beyond college algebra (includes statistics and mathematics) .....	3

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Agricultural Economics.....	10
AECN 201 Farm & Ranch Management...	4
AECN 325 Marketing of Agricultural Commodities.....	3
AECN Elective.....	3
Select from: AECN 256 Legal Aspects in Agriculture, 265 Resource & Environ- mental Economics, 301 Farm Accounting, Analysis & Tax Mgt, 357 Natural Resources & Environmental Law, 401 Advanced Farm Management & Linear Programming, 452 Agricultural Finance, 453 Appraisal of Farm Real Estate	
<b>GRAS 490 Grazing Livestock Systems</b> <b>Internship</b> .....	4
To be planned with adviser.	
<b>Supporting Courses*</b> .....	12
ACCT 201-202 Introductory Accounting; any AECN from above electives, AECN 399 Inde- pendent Study, AGRO 204 Resource-Efficient Crop Management, 435 Agroecology, AGRO/ RNCE 442 Wildland Plants, 444 Vegetation Analysis, 496 Independent Study, AGRO/SOIL 477 Great Plains Field Pedology, ASCI 210 Animal Products, 330 Animal Breeding, 341 Physiology & Management of Reproduction, 399 Independent Study, 422 Advanced Feeding & Feed Formulation, 453 Dairy Management, 455 Beef Cow/Calf Management, 457 Beef Feedlot Management, 485 Animal Systems Analysis, 490A Beef Feedlot Management Internship, NRES 211 Intro to Conservation Biology, 220 Principles of Ecology, 311 Wildlife Ecology & Management, 323 Natural Resources Policy, 423 Integrated Resources Management, VBMS 303 Principles & Prevention of Livestock Diseases	
<b>Free Electives</b> .....	7-11
<b>Total for Graduation</b> .....	128

\*Students interested in federal employment in range management must take AGRO/RNCE 442 and 444.

## Professional Golf Management

**Director:** Terrance P. Riordan, 219 Keim Hall  
**Faculty Advisory Committee:** Heng-Mos (ento-  
mology); Horst, Shearman (horticulture); Schnepf  
(nutritional science and dietetics); Zorn (finance)

The Professional Golf Management major is designed for students who wish to be educated in all aspects of the golf industry and become PGA members. This comprehensive program blends college academic requirements with requirements of the Professional Golfer's Association of America's Professional Golf Management Program (PGA/PGM™), and includes structured internship experiences. The purpose of the program is to produce a graduate that has a basic background in managing golf facilities and related organizations, business and personnel management, restaurant and hospitality management, recreation, and golf instruction methods.

The program's Web site is [pgm.unl.edu](http://pgm.unl.edu).

## CASNR Requirements

	<b>Hours</b>
<b>College Integrative Courses</b> .....	6
AGRI/NRES 103 Intro Agricultural & Natural Resource Systems.....	3
PGMP 489 Professional Golf Management Integration.....	3
<b>Mathematics and Statistics (beyond college algebra)</b> .....	5
Select from MATH 102, 104, 106 and STAT 218.	

**NOTE:** Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. If MATH 103 is taken, only 2 cr hrs can be counted toward this requirement.

<b>Communications</b> .....	9
Written Communication.....	3
Select from: ENGL 150, 151, 254; JGEN 120, 200, 300	
Oral Communication.....	3
Select from: COMM 109, 209, 212, or 311	
ALEC 102 Interpersonal Skills for Leadership.....	3
<b>Natural Sciences</b> .....	8
BIOS 101 & 101L General Biology & Lab or BIOS 109 General Botany.....	4
CHEM 105 Chemistry in Context I or CHEM 109 General Chemistry I.....	4
<b>Humanities and Social Sciences</b> (requirements for ES and IS).....	21
ECON 211 Principles of Macroeconomics.....	3
ECON 212 Principles of Microeconomics.....	3
Essential Studies.....	15
Select one 3-credit course in each of the following five CASNR Essential Studies categories: (For the list of ES/IS courses see "Essential Studies Program List" on page 367.)	
Area C: Human Behavior, Culture & Social Organization	
Area E: Historical Studies	
Area F: Humanities	
Area G: Arts	
Area H: Race, Ethnicity & Gender	

**NOTE:** One 3-credit course with an international focus is to be selected from the lists under "International Agriculture and Natural Resources Minor" on page 46.

## PGM Degree Requirements

	<b>Hours</b>
<b>Business (College of Business Admin)</b> .....	19
ACCT 201 Introductory Accounting I.....	3
ACCT 202 Intro Accounting II.....	3
BSAD 150 Business Computer Applications.....	1
FINA 361 Finance.....	3
MNGT 320 Principles of Management.....	3
MNGT 361 Personnel/Human Resource Management.....	3
MRKT 341 Marketing.....	3
<b>Plant Sciences (CASNR)</b> .....	11
AGRO 131 & 132 Intro to Agronomy & Lab or HORT 130 Intro to Horticulture Science.....	4
AGRO 153 Soil Sciences.....	4
HORT 327 Turfgrass Management.....	3
<b>Food Service Management (Education and Human Sciences)</b> .....	9
NUTR 244 Scientific Principles of Food Preparation.....	3
NUTR 245 Scientific Principles of Food Preparation Lab.....	1
NUTR 372 Food Safety & Sanitation.....	3
NUTR 374 Menu & Service Management.....	2
<b>Supporting Course</b> .....	11
ATHC 279 Coaching Effectiveness.....	3
PGMP 101 Intro to Professional Golf Management.....	2
PGMP 201 Professional Golf Management Program: Level 1.....	2
PGMP 301 Professional Golf Management Program: Level 2.....	2
PGMP 401 Professional Golf Management Program: Level 3.....	2

## Electives

**Specialization:** Select 15 hours from the following major electives, with at least one course from three different areas, plus an additional 13 hours of free electives.

	<b>Hours</b>
<b>Major Electives</b> .....	15
<b>Business</b>	
MNGT 321 Business Plan Development.....	3
MNGT 331 Operations & Resources Management.....	3

MNGT 350 Intro to Management Information Systems.....	3
MNGT 421 Entrepreneurship & Venture Management.....	3
MRKT 345 Market Research.....	3
MRKT 347 Marketing Communication Strategy.....	3
MRKT 425 Retailing Management.....	3
MRKT 428 Sports Marketing.....	3
MRKT 442 Marketing Management.....	3
MRKT 443 Consumer Behavior: Marketing Aspects.....	3
<b>Leadership and Interpersonal Skills</b>	
ALEC 202 Leadership in Small Groups & Teams.....	3
ALEC 302 Dynamics of Effective Leadership in Organizations.....	3
ALEC 410 Environmental Leadership: An Historical & Ethical Perspective.....	3
<b>Natural Sciences</b>	
AGRO 366 Soil Nutrient Management.....	3
ENTO 115 Insect Biology.....	3
ENTO 116 Insect Identification.....	1
ENTO 303 Horticultural Insects.....	3
HORT 200 Landscape & Environmental Appreciation.....	3
HORT 212 Landscape Plants I.....	3
HORT 425 Turfgrass Science & Culture.....	3
HORT 452 Irrigation Systems Management.....	3
PHYS 151 Elements of Physics.....	4
PLPT 369 Intro to Plant Pathology.....	3
<b>Food Service</b>	
NUTR 370 Food Production Management.....	3
NUTR 371 Food Production Management Lab.....	1
NUTR 470 Cost Control for Food Service.....	2
NUTR 474 Food & Beverage Management.....	4
<b>Free Electives</b> .....	14
<b>Total Credit Hours</b> .....	128

To meet PGA requirements, PGM students must:

- be formally accepted by written confirmation into the PGM Program;
- submit proof of playing ability equivalent to 12 handicap or better;
- complete 16 months of internships in at least three different settings;
- participate in a Playing Ability Test once in first year and twice each succeeding year until the PAT is passed; and
- complete Level 3 of the PGA/PGM™ program prior to graduation.

Students are also expected to maintain a 2.5 grade point average, which is required for the College of Business Administration courses.

## Courses of Instruction (PGMP)

**101. Introduction to Professional Golf Management (2 cr I) Lec. Prereq:** Formal acceptance into Professional Golf Management Program (PGMP). Entry level course for students in or considering entering into PGMP. Integration of academic and the Professional Golfers' Association (PGA) requirements.

**201. Professional Golf Management Program: Level 1 (2 cr I) Lec. 1, lab 1. Prereq:** Good standing in PGMP and PGMP 101. Must register for PGMP 201 the semester after completion of the first PGMP internship. Career enhancement, introduction to teaching, golfer development programs and other PGA requirements.

**301. Professional Golf Management Program: Level 2 (2 cr I) Lec. Prereq:** Good standing in PGMP, PGMP 201, and completion of PGA Level 1. Must register for PGMP 301 the semester after completion of the second PGMP internship. Customer relations, business planning and operations, turfgrass management and business communications.

**302. Golf for Success in Business and Life (1 cr I) Ptd. Prereq:** Junior standing. Pass/No Pass only. There are additional fees that apply to PGMP 302 that are over and above the standard tuition and fees. Enrollment is limited. Contact the instructor for details. Not open to PGMP majors. Instructor provided by PGA professionals in golf course setting. Basic knowledge and skills of golf. Golf as a business tool.



**401. Professional Golf Management Program: Level 3** (2 cr II) Lec. Prereq: Good standing in FGMP; FGMP 301; and completion of PGA Level 2. *Most register for PGMP 401 the spring semester after completion of the third PGMP internship. PGMP 401 requires completing a resume, a pre-portfolio and conducting a mock interview.*  
Supervising and delegating, merchandise and inventory management, food and beverage control.

**489. Professional Golf Management Integration<sup>1</sup>** (3 cr I) Lec. Prereq: Good standing in FGMP; PGMP 401; and completion of all PGA internships. *PGMP 489 is to be taken concurrently in the fall semester when completing PGA Level 3. PGMP 489 requires an oral presentation and submission of a portfolio. All academic and PGA requirements must be met to pass PGMP 489.*  
Capstone course for the PGMP major. Pulls together knowledge gained from the academic courses, internships and other aspects of the PGA/PGM Program.

## Horticulture

**Head: Professor Mark Lagrimini**, Department of Agronomy and Horticulture  
**Professors:** Fitzgerald, Gaussoin, Gustafson, Horst, Paparozzi, Read, Riordan, Shearman  
**Associate Professors:** Rodie, Sutton  
**Assistant Professor:** Todd  
**Lecturer:** Lambie  
**Industry Partner/Instructor:** Simmons

Horticulture requires a broad education including knowledge of production, management, improvement, distribution, processing, and utilization of fruits, vegetables, ornamentals, and turf. Horticulture relies on an understanding of the basic sciences and involves competence in communication, aesthetic appreciation, and an awareness of consumer needs.

The following options are open to majors in horticulture: horticulture science, horticulture, management, production, landscape design, horticulture communications, horticulture business, and turfgrass.

Horticulture majors are encouraged to enroll for credit in one or more career experiences after completing two years of formal training. Internships provide invaluable exposure to commercial/professional horticultural enterprises, and should be arranged through advisers. Horticulture majors take horticulture courses on a graded basis.

Electives chosen from social sciences or humanities would be valuable to students considering careers in extension horticulture, horticultural therapy, or other people-oriented aspects of horticulture.

## Major Requirements

The following basic courses are required for the horticulture major. In addition, students in the horticulture major must select and meet the requirements of one of the options, depending upon their particular needs and interests.

	Hours
<b>College Integrative Course</b> .....	3
AGRI/HORT/NRES 103 Food, Agricultural & Natural Resource Systems.....	3
Capstone Course: See Option Requirement	
<b>Horticulture</b> .....	14
AGRO/HORT/SOIL 153 Soil Resources.....	4
HORT 130 Intro to Horticulture Science.....	4
HORT 221 Plant Propagation.....	3
HORT 327 Intro to the Science of Turf Management.....	3
<b>Mathematics and Analytical Skills (beyond college algebra)</b> .....	5
<b>Communications</b> .....	9
Written Communication.....	3
Select from: ENGL 150, 151, 254; JGEN 120, 200, 300	

Oral Communication.....	3
Select from: COMM 109, 209, 212, 311	
Communications and Interpersonal Skills.....	3
Select from: ENGL 101, 150, 151, 252, 253, 254; ALEC 102; JGEN 120, 200, 300; COMM 109, 209, 212, 311	

<b>Natural Sciences</b> .....	12-13
BIOS 101 & 101L General Biology & Lab.....	4
BIOS 109 General Botany.....	4
MSYM 109 Physical Principles in Agriculture, 4-5 or PHYS 141 Elementary General Physics I (5 cr) or PHYS 151 Elements of Physics (4 cr) or PHYS 211 General Physics I (4 cr)	
See option requirements for chemistry course(s).	

<b>Humanities and Social Sciences</b> .....	18
ECON 211 Principles of Macroeconomics.....	3
or ECON 212 Principles of Macroeconomics or AEON 141 Intro to Economics of Agriculture	

<b>Essential Studies</b> .....	15
Select one 3-credit course in each of the following five CASNR Essential Studies categories: (For the list of ES/IS courses see "Essential Studies Program List" on page 367.)	

Area C: Human Behavior, Culture & Social Organization	
Area E: Historical Studies	
Area F: Humanities (AEON 388 recommended)	
Area G: Arts	
Area H: Race, Ethnicity & Gender (MNGT 361 recommended)	

**NOTE:** One 3-credit course with an international focus is to be selected from the lists under "International Agriculture and Natural Resources Minor" on page 46 which counts towards CASNR ES/IS requirements.

<b>Total Major Requirements</b> .....	56-57
<b>Option Requirements within the Major and Free Electives</b> .....	71-72
<b>Total Requirement for Graduation</b> .....	128

## Landscape Design Option

Students in the landscape design option are preparing for careers with nurseries, garden centers, or landscape contracting firms that design, plant, or install residential and commercial landscapes. Students choosing a landscape architecture minor are preparing themselves for graduate study in landscape architecture. For further details see the next page.

	Hours
<b>Capstone Course</b> .....	4
HORT 469 Senior Landscape Design.....	4
<b>Mathematics and Analytical Skills (beyond college algebra)</b> .....	5
MATH 102 Trigonometry.....	2
One course beyond college algebra (includes statistics and mathematics).....	3
<b>Chemistry</b> .....	4
CHEM 105 Chemistry in Context I.....	4
<b>Agricultural Sciences</b> .....	16
HORT 200 Landscape & Environmental Appreciation.....	3
HORT 212 Landscape Plants I.....	3
HORT 213 Landscape Plants II.....	3
HORT 214 Herbaceous Landscape Plants.....	3
HORT 395 Career Experience.....	1
HORT 452 Irrigation Systems Management.....	3
<b>Horticulture and Natural Resource Electives</b> ..	9
Select a minimum of 9 credit hours from the following courses:	
AGRO 440 Great Plains Ecosystem.....	3
BIOS 220 Principles of Ecology.....	3
HORT 352 Fruit & Vegetable Science & Culture.....	3-4
HORT 362 Nursery Crop Production Management.....	4
HORT 418 Agroforestry Systems in Sustainable Agriculture.....	3
HORT 425 Turfgrass Science & Culture.....	3
HORT 435 Agroecology.....	3
HORT 470 Landscape Management.....	4
HORT 489 Urbanization of Rural Landscapes.....	3
HORT 498 Topics in Landscape Architecture.....	1

MSYM 354 Soil Conservation & Watershed Management.....	3
NRES 310 Intro to Forest Management.....	4
NRES 424 Forest Ecology.....	4
NRES 468 Wetlands.....	4
<b>Construction and Design</b> .....	14
HORT 265 Visual Communications for Landscape Design.....	3
HORT 266 Intro to Landscape Design.....	4
HORT 467 Planting Design.....	4
HORT 468 Intro to Landscape Construction.....	3
<b>Free Electives</b> .....	18-19
<b>Total Option Requirement</b> .....	71-72

## Landscape Management Option

Landscape horticulture and management option graduates are qualified to manage private and public landscapes as a business. They also are trained to manage and implement landscape designs for the landscape and nursery industry.

	Hours
<b>Capstone Course</b> .....	4
HORT 470 Landscape Management.....	4
<b>Mathematics and Analytical Skills (beyond college algebra)</b> .....	5
MATH 102 Trigonometry.....	2
One course beyond college algebra (includes statistics and mathematics).....	3
<b>Chemistry</b> .....	4
CHEM 105 Chemistry in Context I.....	4
<b>Agricultural Sciences</b> .....	30
HORT 200 Landscape & Environmental Appreciation.....	3
HORT 212 Landscape Plants I.....	3
HORT 213 Landscape Plants II.....	3
HORT 214 Herbaceous Landscape Plants.....	3
HORT 362 Nursery Crop Production Management.....	4
HORT 395 Career Experience.....	1
HORT 452 Irrigation Systems Management.....	3
ENTO 115 Insect Biology.....	3
ENTO 116 Insect Identification.....	1
ENTO 303 Horticulture Insects.....	3
PLPT 369 Introductory Plant Pathology.....	3
<b>Horticulture Electives</b> .....	9-12
Select at least three of the following courses:	
AGRO 220 Principles of Weed Science.....	3
AGRO 315 Genetics.....	3
AGRO 361 Soils, Environment & Water Quality.....	3
HORT 170 Residential Landscape Design.....	2
HORT 260 Cut Flowers, Perennials, Potting & Bedding Plant Production.....	3
HORT 261 Floral Design I.....	3
HORT 262 Floral Design II.....	3
HORT 265 Visual Communications for Landscape Design.....	3
HORT 266 Intro to Landscape Design.....	4
HORT 325 Greenhouse Practices & Management.....	4
HORT 352 Fruit & Vegetable Science & Culture (A, B, or L plus B and/or K).....	3-4
HORT 425 Turfgrass Science & Culture.....	3
HORT 467 Planting Design.....	4
HORT 468 Intro to Landscape Construction.....	3
<b>Management Electives</b> .....	6
Select two of the following five courses:	
MNGT 360 Managing Behavior in Organizations.....	3
ACCT 201 Introductory Accounting I.....	3
AEON 256 Legal Aspects in Agriculture.....	3
ENTR 321 Business Plan Development.....	3
<b>Free Electives</b> .....	11-17
<b>Total Option Requirement</b> .....	71-72

## Production Option

This option prepares students for production, marketing and sales careers in nursery, field and greenhouse grown ornamentals, fruits and vegetables.

This option is met by completing the courses listed under the horticulture core curriculum plus the following:



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<b>Communication</b> .....9	
Written Communication.....3	
Select from: ENGL 150, 151, 254; JGEN 120, 200, 300	
Oral Communication.....3	
Select from: COMM 209, 311; ALEC 305	
Communication and Interpersonal Skills Elective.....3	
Select from: Any communication above, ALEC 102, 202; COMM 109	
<b>Natural Sciences</b> .....24-28	
AGRO 315 Genetics.....4	
Select two:.....8	
BIOS 101 & 101L General Biology & Lab (4 cr)	
BIOS 102 Cell Structure & Function (4 cr)	
BIOS 103 Organismic Biology (4 cr) (102 & 103 preferred)	
Select one of the following:.....8-12	
CHEM 105 & 106 Chemistry in Context I & II (8 hrs)	
CHEM 109 & 110 General Chemistry I & II and CHEM 251 & 253 Organic Chemistry I & Lab (12 hrs)	
MSYM 109 Physical Principles of Agriculture or PHYS 151 Elements of Physics.....4	
<b>Humanities and Social Sciences</b> .....18	
ECON 212 Principles of Microeconomics or AECN 141 Intro to the Economics of Agriculture.....3	
Essential Studies.....15	
Select one 3-credit course in each of the following five CASNR Essential Studies categories: (For the list of ES/IS courses see "Essential Studies Program List" on page 377.)	
Area C. Human Behavior, Culture & Social Organization	
Area E. Historical Studies	
Area F. Humanities	
Area G. Arts	
Area H. Race, Ethnicity & Gender	
NOTE: One 3-credit course with an international focus is to be selected from the lists under "International Agriculture and Natural Resources Minor" on page 48 which counts towards CASNR ES/IS requirements.	
<b>Agricultural Sciences</b> .....39	
Animal Science.....15	
ASCI 100 Fundamentals of Animal Biology.....4	
ASCI 240 Anatomy & Physiology of Domestic Animals.....4	
ASCI 320 Animal Nutrition & Feeding.....3	
ASCI 330 Animal Breeding or 341 Physiology & Management of Reproduction.....4	
Agronomy/Range/Soils.....14	
AGRO/SOIL 153 Soil Resources.....4	
AGRO/RNGE 240 Forage Crop & Range Management.....4	
AGRO/RNGE 340 Range Management & Improvement.....3	
AGRO/RNGE 440 Great Plains Ecosystems.....3	
<b>Agricultural Economics</b> .....10	
AECN 201 Farm & Ranch Management.....4	
AECN 325 Marketing of Agricultural Commodities.....3	
AECN Elective.....3	
Select from: AECN 256 Legal Aspects in Agriculture, 265 Resource & Environmental Economics, 301 Farm Accounting, Analysis & Tax Mgt, 357 Natural Resources & Environmental Law, 401 Advanced Farm Management & Linear Programming, 452 Agricultural Finance, 453 Appraisal of Farm Real Estate	
<b>GRAS 490 Grazing Livestock Systems</b>	
Internship.....1-3	
To be planned with adviser:	
<b>Supporting Courses</b> .....12	
ACCT 201-202 Introductory Accounting; any AECN from above electives, AECN 399 Independent Study, AGRO 204 Resource-Efficient Crop Management, 435 Agroecology; AGRO/RNGE 442 Wetland Plants, 444 Vegetation Analysis, 496 Independent Study; AGRO/SOIL 477 Great Plains Field Pedology; ASCI 210 Animal Products, 330 Animal Breeding, 341	

Physiology & Management of Reproduction, 399 Independent Study, 422 Advanced Feeding & Feed Formulation, 453 Dairy Management, 455 Beef Cow/Calf Management, 457 Beef Feedlot Management, 485 Animal Systems Analysis, 490A Beef Feedlot Management Internship; NRES 211 Intro to Conservation Biology, 220 Principles of Ecology, 311 Wildlife Ecology & Management, 323 Natural Resources Policy, 423 Integrated Resources Management; VBMS 303 Principles & Prevention of Livestock Diseases

**Free Electives**.....7-11  
**Total for Graduation**.....128

\*Students interested in federal employment in range management must take AGRO/RNGE 442 and 444.

## Professional Golf Management

**Director:** Professor Terrance P. Riordan, 219 Keim Hall

**Faculty Advisory Committee:** Heng-Moss (entomology); Horst, Shearman (horticulture); Schnepf (nutritional science and dietetics); Zorn (finance)

The Professional Golf Management major is designed for students who wish to be educated in all aspects of the golf industry and become PGA members. This comprehensive program blends college academic requirements with requirements of the Professional Golfers' Association of America's Professional Golf Management Program (PGA/PGM™), and includes structured internship experiences. The purpose of the program is to produce a graduate that has a basic background in managing golf facilities and related organizations, business and personnel management, restaurant and hospitality management, recreation, and golf instruction methods. Upon graduation, a student is eligible for PGA Class "A" membership.

The program's Web site is [pgm.unl.edu](http://pgm.unl.edu).

## CASNR Requirements

<b>College Integrative Courses</b> .....6	<b>Hours</b>
AGRI/NRES 103 Intro Agricultural & Natural Resource Systems.....3	
PGMP 489 Professional Golf Management Integration.....3	
<b>Mathematics and Statistics (beyond college algebra)</b> .....5	
Select from MATH 102, 104, 106 and STAT 218.	
NOTE: Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. If MATH 103 is taken, only 2 cr hrs can be counted toward this requirement.	
<b>Communications</b> .....9	
Written Communication.....3	
Select from: ENGL 150, 151, 254; JGEN 120, 200, 300	
Oral Communication.....3	
Select from: COMM 109, 209, 212, or 311	
ALEC 102 Interpersonal Skills for Leadership.....3	
<b>Natural Sciences</b> .....8	
BIOS 101 & 101L General Biology & Lab or BIOS 109 General Botany.....4	
CHEM 105 Chemistry in Context I or CHEM 109 General Chemistry I.....4	
<b>Humanities and Social Sciences (requirements for ES and IS)</b> .....21	
ECON 211 Principles of Macroeconomics.....3	
ECON 212 Principles of Microeconomics.....3	
Essential Studies.....15	
Select one 3-credit course in each of the following five CASNR Essential Studies categories: (For the list of ES/IS courses see "Essential Studies Program List" on page 377.)	

Area C. Human Behavior, Culture & Social Organization  
 Area E. Historical Studies  
 Area F. Humanities  
 Area G. Arts  
 Area H. Race, Ethnicity & Gender

NOTE: One 3-credit course with an international focus is to be selected from the lists under "International Agriculture and Natural Resources Minor" on page 48.

## PGM Degree Requirements

<b>Business (College of Business Admin)</b> .....19	<b>Hours</b>
ACCT 201 Introductory Accounting I.....3	
ACCT 202 Intro Accounting II.....3	
BSAD 150 Business Computer Applications.....1	
FINA 361 Finance.....3	
MNGT 320 Principles of Management.....3	
MNGT 361 Personnel/Human Resource Management.....3	
MRKT 341 Marketing.....3	
<b>Plant Sciences (CASNR)</b> .....11	
AGRO 131 & 132 Intro to Agronomy & Lab or HORT 130 Intro to Horticulture Science.....4	
AGRO 153 Soil Sciences.....4	
HORT 327 Turfgrass Management.....3	
<b>Food Service Management (Education and Human Sciences)</b> .....9	
NUTR 244 Scientific Principles of Food Preparation.....3	
NUTR 245 Scientific Principles of Food Preparation Lab.....1	
NUTR 372 Food Safety & Sanitation.....3	
NUTR 374 Menu & Service Management.....2	
<b>Supporting Course</b> .....11	
ATHC 279 Coaching Effectiveness.....3	
PGMP 101 Intro to Professional Golf Management.....2	
PGMP 201 Professional Golf Management Program: Level 1.....2	
PGMP 301 Professional Golf Management Program: Level 2.....2	
PGMP 401 Professional Golf Management Program: Level 3.....2	

## Electives

Specialization: Select 15 hours from the following major electives, with at least one course from three different areas, plus an additional 13 hours of free electives.

<b>Major Electives</b> .....15	<b>Hours</b>
<b>Business</b>	
MNGT 321 Business Plan Development.....3	
MNGT 331 Operations & Resources Management.....3	
MNGT 350 Intro to Management Information Systems.....3	
MNGT 421 Entrepreneurship & Venture Management.....3	
MRKT 345 Market Research.....3	
MRKT 347 Marketing Communication Strategy.....3	
MRKT 425 Retailing Management.....3	
MRKT 428 Sports Marketing.....3	
MRKT 442 Marketing Management.....3	
MRKT 443 Consumer Behavior: Marketing Aspects.....3	
<b>Leadership and Interpersonal Skills</b>	
ALEC 202 Leadership in Small Groups & Teams.....3	
ALEC 302 Dynamics of Effective Leadership in Organizations.....3	
ALEC 410 Environmental Leadership.....3	
<b>Natural Sciences</b>	
AGRO 366 Soil Nutrient Management.....3	
ENTO 115 Insect Biology.....3	
ENTO 116 Insect Identification.....1	
ENTO 303 Horticultural Insects.....3	
HORT 200 Landscape & Environmental Appreciation.....3	
HORT 212 Landscape Plants I.....3	

HORT 425 Turfgrass Science & Culture .....	3
HORT 452 Irrigation Systems Management .....	3
PHYS 151 Elements of Physics .....	4
PLPT 369 Intro to Plant Pathology .....	3

**Food Service**

NUTR 370 Food Production Management .....	3
NUTR 371 Food Production Management Lab .....	1
NUTR 470 Cost Control for Food Service .....	2
NUTR 474 Food & Beverage Management .....	4

<b>Free Electives</b> .....	14
<b>Total Credit Hours</b> .....	128

To meet PGA requirements, PGM students must:

- be formally accepted by written confirmation into the PGM Program;
- submit proof of playing ability equivalent to 12 handicap or better;
- complete 16 months of internships in at least three different settings;
- participate in a Playing Ability Test once in first year and twice each succeeding year until the PAT is passed; and
- complete Level 3 of the PGA/PGM™ program prior to graduation.

Students are also expected to maintain a 2.5 grade point average, which is required for the College of Business Administration courses.

**Courses of Instruction (PGMP)**

**101. Introduction to Professional Golf Management** (2 cr I) Lec. Prereq: Formal acceptance into Professional Golf Management Program (PGMP). Entry level course for students in or considering entering into PGMP. Integration of academic and the Professional Golfers' Association (PGA) requirements.

**201. Professional Golf Management Program: Level 1** (2 cr I) Lec. 1, lab 1. Prereq: Good standing in PGMP and PGMP 101. Must register for PGMP 201 the semester after completion of the first PGMP internship. Career enhancement, introduction to teaching, golfer development programs and other PGA requirements.

**227. Introduction to Turfgrass Management** (HORT, AGRO 227) (3 cr II) Lec. 2, lab 3, rec. 3. Prereq: AGRO 131 or HORT 130 or BIOS 109. Principles and practices using team approaches to problem solving, discussion, assessment, planning, and oral presentations. For course description, see HORT 227.

**295. Professional Golf Management Extended Internship** (0-12 cr, max 24 I, II, III) Fid. Prereq: Sophomore standing; PGMP 101; permission of PGMP Internship Coordinator. Credit in PGMP 295 does not count toward graduation. All students in PGMP that are participating in an extended internship may register each term while on the internship. Pass/No Pass only. Cooperative education work in a regularly established internship in the PGMP curriculum.

**301. Professional Golf Management Program: Level 2** (2 cr I) Lec. Prereq: Good standing in PGMP; PGMP 201; and completion of PGA Level 1. Must register for PGMP 301 the semester after completion of the second PGMP internship. Customer relations, business planning and operations, turfgrass management and business communications.

**302. Golf for Success in Business and Life** (1 cr I) Fid. Prereq: Junior standing. Pass/No Pass only. There are additional fees that apply to PGMP 302 that are over and above the standard tuition and fees. Enrollment is limited. Contact the instructor for details. Not open to PGMP majors. Instructor provided by PGA professionals in golf course setting. Basic knowledge and skills of golf. Golf as a business tool.

**401. Professional Golf Management Program: Level 3** (2 cr I) Lec. Prereq: Good standing in PGMP; PGMP 301; and completion of PGA Level 2. Must register for PGMP 401 the spring semester after completion of the third PGMP internship. PGMP 401 requires completing a resume, a pre-portfolio and conducting a mock interview. Supervising and delegating, merchandise and inventory management, food and beverage control.

**489. Professional Golf Management Integration** (3 cr I) Lec. Prereq: Good standing in PGMP; PGMP 401; and completion of all PGA internships. PGMP 489 is to be taken concurrently in the fall semester when completing PGA Level 3. PGMP 489 requires an oral presentation and submission of a portfolio. All academic and PGA requirements must be met to pass PGMP 489.

Capstone course for the PGMP major. Pulls together knowledge gained from the academic courses, internships and other aspects of the PGA/PGM Program.

**Horticulture**

**Head: Professor Mark Lagrimini**, Department of Agronomy and Horticulture, 279 Plant Sciences  
**Professors:** Fitzgerald, Gaussoin, Gustafson, Horst, Paparozzi, Read, Riordan, Shearman  
**Associate Professors:** Rodie, Sutton  
**Assistant Professor:** Todd  
**Lecturer:** Lambe  
**Industry Partner/Instructor:** Simmons

Horticulture requires a broad education including knowledge of production, management, improvement, distribution, processing, and utilization of fruits, vegetables, ornamentals, and turf. Horticulture relies on an understanding of the basic sciences and involves competence in communication, aesthetic appreciation, and an awareness of consumer needs.

The following options are open to majors in horticulture: horticulture science, horticulture, management, production, landscape design, horticulture communications, horticulture business, and turfgrass.

Horticulture majors are encouraged to enroll for credit in one or more career experiences after completing two years of formal training. Internships provide invaluable exposure to commercial/professional horticultural enterprises, and should be arranged through advisers. Horticulture majors take horticulture courses on a graded basis.

Electives chosen from social sciences or humanities would be valuable to students considering careers in extension horticulture, horticultural therapy, or other people-oriented aspects of horticulture.

**Major Requirements**

The following basic courses are required for the horticulture major. In addition, students in the horticulture major must select and meet the requirements of one of the options, depending upon their particular needs and interests.

<b>College Integrative Course</b> .....	3
AGRI/NRES 103 Food, Agricultural & Natural Resource Systems .....	3
Capstone Course: See Option Requirement	
<b>Horticulture</b> .....	14
AGRO/HORT/SOIL 153 Soil Resources .....	4
HORT 130 Intro to Horticulture Science .....	4
HORT 221 Plant Propagation .....	3
HORT 227 Intro to Turfgrass Management or 327 Intro to the Science of Turf Management .....	3
<b>Mathematics and Analytical Skills (beyond college algebra)</b> .....	5
<b>Communications</b> .....	9
Written Communication .....	3
Select from: ENGL 150, 151, 254; JGEN 120, 200, 300 .....	3
Oral Communication .....	3
Select from: COMM 109, 209, 212, 311 .....	3
Communications and Interpersonal Skills .....	3
Select from: ENGL 101, 150, 151, 252, 253, 254; ALEC 102; JGEN 120, 200, 300; COMM 109, 209, 212, 311 .....	12-13
<b>Natural Sciences</b> .....	12-13
BIOS 101 & 101L General Biology & Lab .....	4
BIOS 109 General Botany .....	4
MSYM 109 Physical Principles in Agriculture .....	4-5
or PHYS 141 Elementary General Physics I (5 cr) or PHYS 151 Elements of Physics (4 cr) or PHYS 211 General Physics I (4 cr) .....	4
Chemistry requirement(s) are listed under Options below.	

<b>Humanities and Social Sciences</b> .....	18
ECON 211 Principles of Macroeconomics .....	3
or ECON 212 Principles of Macroeconomics or AECN 141 Intro to Economics of Agriculture .....	15
<b>Essential Studies</b> .....	15

Select one 3-credit course in each of the following five CASNR Essential Studies categories: (For the list of ES/IS courses see "Essential Studies Program List" on page 377.)

Area C: Human Behavior, Culture & Social Organization .....	
Area E: Historical Studies .....	
Area F: Humanities (AECN 388 recommended) .....	
Area G: Arts .....	
Area H: Race, Ethnicity & Gender (MNGT 361 recommended) .....	

**NOTE:** One 3-credit course with an international focus is to be selected from the lists under "International Agriculture and Natural Resources Minor" on page 48 which counts towards CASNR ES/IS requirements.

<b>Total Major Requirements</b> .....	56-57
<b>Option Requirements within the Major and Free Electives</b> .....	71-72
<b>Total Requirement for Graduation</b> .....	128

**Landscape Design Option**

Students in the landscape design option are preparing for careers with nurseries, garden centers, or landscape contracting firms that design, plant, or install residential and commercial landscapes. Students choosing a landscape architecture minor are preparing themselves for graduate study in landscape architecture. For further details see the next page.

<b>Hours</b>	
<b>Capstone Course</b> .....	4
HORT 469 Senior Landscape Design .....	4
<b>Mathematics and Analytical Skills (beyond college algebra)</b> .....	5
MATH 102 Trigonometry .....	2
One course beyond college algebra (includes statistics and mathematics) .....	3
<b>Natural Sciences</b> .....	4
CHEM 105 Chemistry in Context I .....	4
<b>Agricultural Sciences</b> .....	16
HORT 200 Landscape & Environmental Appreciation .....	3
HORT 212 Landscape Plants I .....	3
HORT 213 Landscape Plants II .....	3
HORT 214 Herbaceous Landscape Plants .....	3
HORT 395 Career Experience .....	1
HORT 452 Irrigation Systems Management .....	3
<b>Horticulture and Natural Resource Electives</b> ..	9
Select a minimum of 9 credit hours from the following courses:	
AGRO 440 Great Plains Ecosystem .....	3
BIOS 220 Principles of Ecology .....	3
HORT 352 Fruit & Vegetable Science & Culture .....	3-4
HORT 362 Nursery Crop Production Management .....	4
HORT 418 Agroforestry Systems in Sustainable Agriculture .....	3
HORT 425 Turfgrass Science & Culture .....	3
HORT 435 Agroecology .....	3
HORT 470 Landscape Management .....	4
HORT 488 Business Management for Horticultural Enterprises .....	3
HORT 489 Urbanization of Rural Landscapes .....	3
HORT 498 Topics in Landscape Architecture .....	1
MSYM 354 Soil Conservation & Watershed Management .....	3
NRES 310 Intro to Forest Management .....	4
NRES 424 Forest Ecology .....	4
NRES 468 Wetlands .....	4
<b>Construction and Design</b> .....	15
CNST 131 Intro to the Construction Industry .....	1
HORT 265 Visual Communications for Landscape Design .....	3
HORT 268 Intro to Landscape Design .....	4
HORT 300 Intro to Landscape Construction .....	3
HORT 467 Planting Design .....	4
<b>Free Electives</b> .....	18-19
<b>Total Option Requirement</b> .....	71-72

\*866. Phytopathogenic Nematodes (3 cr I) Lec 2, lab 3. Prereq: BIOS 464A/864A or \*864B or permission. Offered odd-numbered calendar years.

\*867. Plant Pathogenic Bacteria (3 cr I) Lec 2, lab 3 (lab 1 cr optional). Prereq: BIOS 312, 464A/864A or \*864B, and CHEM 452/832 or 436/836 or permission. Offered even-numbered calendar years.

\*869. Phytopathogenic Fungi (3 cr I) Lec 1, lab 2. Prereq: BIOS 312, 864A or \*864B, 805 or equivalent, with permission. Offered even-numbered calendar years.

898. Problems in Biological Sciences (1-6 cr, max 16) Prereq: 12 hrs biological sciences and permission.

899. Masters Thesis (BIOS 899) (6-10 cr)

Refer to the Graduate Bulletin for 900-level courses.

## Plant Protection Sciences

Plant Protection Sciences Curriculum Committee  
Chair: Professor J. E. Partridge, Department of Plant Pathology, 406 Plant Sciences

Professors: Powers (plant pathology), Yuen (plant pathology)

Plant protection sciences is a wide and multifaceted field of study. Students pursuing this degree will prepare themselves for careers that involve the application of biology, ecology and chemistry for the protection of plants that are useful and beneficial to man. Students in this degree program will study plants as well as the biologies and management of their associated pests and parasites. Students will also learn to understand the interactions of these beneficial and destructive organisms within various environments which result in reduced plant vigor, health or yield loss. These situations may also lead to plant products that are unsafe or toxic for human and animal consumption.

Students successfully completing the requirements for graduation in this degree program may find employment opportunities in such areas as: government regulatory services, commercial inspection and home security agencies; consulting companies; agricultural industries; and plant breeding companies. Students considering graduate studies will find themselves well prepared for that pursuit as well.

The Plant Protection Sciences curriculum provides students with the course work background required for application for professional certification. The Plant Protection Sciences Curriculum Committee in the College of Agricultural Sciences and Natural Resources serves as the administrative body for this degree program and is responsible for advising students selecting this degree program.

## Requirements

College Integrative Courses.....	6
AGRI 103 Food, Agriculture & Natural Resource Systems.....	3
AGRO/ENTO/PLPT 480 Integrative Plant Protection Sciences (Capstone).....	3
Natural Sciences.....	32
AGRO 315 Genetics.....	4
BIOS 109 Botany.....	4
BIOS 101 & 101L Intro to Biology & Lab.....	4
Biology elective.....	4
Select from: AGRO 325; BIOS 207, 220, 381, 471, or 478	
CHEM 109 General Chemistry I.....	4

CHEM 110 General Chemistry II.....	4
Chemistry elective.....	4
Select from: CHEM 251 and 253	
PHYS 141 Elementary General Physics or PHYS 151 & 153 Elements of Physics & Lab or PHYS 211 & 221 General Physics & Lab or MSYM 109 & 109L Physical Principles in Agriculture & Lab.....	5
Mathematics and Statistics (beyond college algebra).....	5
Select from: STAT 218, MATH 102, 104, or 106	
Communications.....	6
Written Communication.....	3
Select from: ENGL 150, 151, 254; JGEN 120, 200, 300	
Communication and Interpersonal Skills electives.....	3
Select from: ENGL 101, 150, 151, 252, 253, 254; ALEC 102; JGEN 120, 200, 300; COMM 109, 209, 212, or 311	
Humanities and Social Sciences.....	18
ECON 211 Principles of Microeconomics.....	3
or ECON 212 Principles of Macroeconomics	
or AECN 141 Intro to the Economics of Agriculture	
Essential Studies.....	15
Select one 3-credit course in each of the following five CASNR Essential Studies categories: (For the listing of ES/IS courses see "Essential Studies Program List" on page 399.)	
Area C. Human Behavior, Culture & Social Organization	
Area E. Historical Studies	
Area F. Humanities & Social Science	
Area G. Arts	
Area H. Race, Ethnicity & Gender	
Plant Protection Sciences.....	40
AGRI 200 Intro to Pesticides.....	2
AGRO 153 Soil Resources.....	4
AGRO 220 Principles of Weed Science.....	3
ENTO 115 Insect Biology.....	3
ENTO 116 Insect Identification.....	1
PLPT 160 Current Topics in Plant Protection I.....	1
PLPT 260 Current Topics in Plant Protection II.....	1
PLPT 369 & 369L Intro to Plant Pathology & Lab.....	4
PLPT 390 Current Topics in Plant Protection III.....	1
Internship.....	3
Select from: AGRO 496, ENTO 496, HORT 496, PLPT 496	
Plant Science/Production electives.....	7
Select from: AGRO 131 and 132, 204, 240; HORT 130, 325, 327	
Plant Protection Sciences electives.....	10
Selection of electives must be done with adviser to assure proper progress towards certification desired.	
Entomology	
Select from: ENTO 109, 303, 308, 400, 401, 406	
Plant Pathology	
Select from: PLPT 270, 370; BIOS 312 and 313	
Weed Science	
Select from: AGRO 412	
Free Elective.....	21
Total Degree (62) and College (50) Requirements.....	106
Total Electives.....	22
Total Requirements for Graduation.....	128

## Integrated Pest Management Minor

A minor in integrated pest management will include a minimum of 18 hours of pest management-related courses including three core courses (AGRO 220, Principles of Weed Science, PLPT 369 Introduction to Plant Pathology, and either ENTO 308 Management of Field Crop Insects or ENTO 303 Horticultural Insects). The remaining pest management courses must be approved by a member of the Crop Protection Curriculum Committee. At least 6 hours must be at the 300 or 400 level and up to 3 hours of pest management related independent study course work may be included.

7 Depending on career goals; students, in consultation with their advisers, may wish to consider minors and/or a dual major.

## Professional Golf Management

Director: Professor Terrance P. Riordan, 219 Keim Hall  
Faculty Advisory Committee: Heng-Moss (entomology); Horst, Shearman (horticulture); Schnepf (nutritional science and dietetics); Zorn (finance)

The Professional Golf Management degree program is designed for students who wish to be educated in all aspects of the golf industry and become PGA members. This comprehensive program blends college academic requirements with requirements of the Professional Golfers' Association of America's Professional Golf Management Program (PGA/PGM™), and includes structured internship experiences. The purpose of the program is to produce a graduate that has a basic background in managing golf facilities and related organizations, business and personnel management, restaurant and hospitality management, recreation, and golf instruction methods. Upon graduation, a student is eligible for PGA Class "A" membership.

The program's Web site is [pgm.unl.edu](http://pgm.unl.edu).

## Requirements

### CASNR Requirements

	Hours
College Integrative Courses.....	6
AGRI/NRES 103 Intro Agricultural & Natural Resource Systems.....	3
PGMP 489 Professional Golf Management Integration.....	3
Mathematics and Statistics (beyond college algebra).....	5
Select from: MATH 102, 104, 106 and STAT 218.	
NOTE: Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. If MATH 103 is taken, only 2 cr hrs can be counted toward this requirement.	
Communications.....	9
Written Communication.....	3
Select from: ENGL 150, 151, 254; JGEN 120, 200, 300	
Oral Communication.....	3
Select from: COMM 109, 209, 212, or 311	
ALEC 102 Interpersonal Skills for Leadership.....	3
Natural Sciences.....	12
AGRO 131 & 132 Plant Science & Lab.....	4
CHEM 105 Chemistry in Context I or CHEM 109 General Chemistry I.....	4
Select from:	
BIOS 101 & 101L General Biology & Lab (4 hrs)	
BIOS 109 General Botany (4 hrs)	
ENTO 115 Insect Biology (3 hrs) (preferred) and	
ENTO 116 Insect Identification (1 hr)	
Humanities and Social Sciences (requirements for ES and IS).....	21
ECON 211 Principles of Macroeconomics.....	3
ECON 212 Principles of Microeconomics.....	3
Essential Studies.....	15
Select one 3-credit course in each of the following five CASNR Essential Studies categories: (For the list of ES/IS courses see "Essential Studies Program List" on page 399.)	
Area C. Human Behavior, Culture & Social Organization	
Area E. Historical Studies	
Area F. Humanities	
Area G. Arts	
Area H. Race, Ethnicity & Gender	
NOTE: One 3-credit course with an international focus is to be selected from the lists under "International Focus Requirement" on page 48.	

455 Beef Cow/Calf Management, 457 Beef Feedlot Management, 485 Animal Systems Analysis, 490A Beef Feedlot Management Internship; NRES 211 Wildlife Biology & Conservation, 323 Natural Resources Policy, 423 Integrated Resources Management; VBMS 303 Principles & Prevention of Livestock Diseases	
Free Electives .....	12
<b>Total for Graduation .....</b>	<b>128</b>

## Professional Golf Management

**Director:** Terrance P. Riordan, 219 Keim Hall  
**Faculty Advisory Committee:** Heng-Mos (entomology); Horst, Shearman (horticulture); Schnepf (nutritional science and dietetics); Zorn (finance)

The Professional Golf Management major is designed for students who wish to be educated in all aspects of the golf industry and become PGA members. This comprehensive program blends college academic requirements with requirements of the Professional Golfers' Association of America's Professional Golf Management Program (PGA/PGM™), and includes structured internship experiences. The purpose of the program is to produce a graduate that has a basic background in managing golf facilities and related organizations, business and personnel management, restaurant and hospitality management, recreation, and golf instruction methods.

The program's Web site is [pgm.unl.edu](http://pgm.unl.edu).

## CASNR Requirements

	Hours
<b>College Integrative Courses .....</b>	<b>6</b>
AGRI/NRES 103 Intro Agricultural & Natural Resource Systems .....	3
PGMP 489 Integration .....	3
<b>Mathematics and Statistics (beyond college algebra) .....</b>	<b>5</b>
Select from MATH 102, 104, 106 and STAT 218.	
NOTE: Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. If MATH 103 is taken, only 2 cr hrs can be counted toward this requirement.	
<b>Communications .....</b>	<b>9</b>
Written Communication .....	3
Select from: ENGL 150, 151, 254; JGEN 120, 200, 300	
Oral Communication .....	3
Select from: COMM 109, 209, 212, or 311	
ALEC 102 Interpersonal Skills for Leadership .....	3
<b>Natural Sciences .....</b>	<b>12</b>
BIOS 101 & 101L General Biology & Lab .....	4
or BIOS 109 General Botany	
CHEM 109 General Chemistry I .....	4
PHYS 151 Elements of Physics .....	4
or MSYM 109 Physical Principles in Agriculture	
<b>Humanities and Social Sciences (requirements for ES and IS) .....</b>	<b>18</b>
ECON 211 Principles of Microeconomics .....	3
Essential Studies .....	15
Select one 3-credit course in each of the following five CASNR Essential Studies categories: (For the list of ES/IS courses see "Essential Studies Program List" on page 359.)	
C. Human Behavior, Culture & Social Organization	
E. Historical Studies	
F. Humanities	
G. Arts	
H. Race, Ethnicity & Gender	
NOTE: One 3-credit course with an international focus is to be selected from the lists under "International Agriculture and Natural Resources Minor" on page 46.	

## PGM Degree Requirements

	Hours
<b>Business (College of Business Admin) .....</b>	<b>19</b>
ACCT 201 Intro Accounting I .....	3
ACCT 202 Intro Accounting II .....	3
BSAD 150 Business Computer Applications .....	1
FINA 361 Finance .....	3
MNGT 320 Principles of Management .....	3
MNGT 361 Personnel/Human Resource Mngt .....	3
MRKT 341 Marketing .....	3
<b>Plant Sciences (CASNR) .....</b>	<b>11</b>
AGRO 131 and 132 Intro to Agronomy and Lab or HORT 130 Intro to Horticulture Science .....	4
AGRO 153 Soil Sciences .....	4
HORT 327 Turfgrass Management .....	3
<b>Food Service Management (Education and Human Sciences) .....</b>	<b>9</b>
NUTR 372 Food Safety & Sanitation .....	3
NUTR 374 Menu & Service Management .....	2
NUTR 474 Food & Beverage Management .....	4
<b>Supporting Course .....</b>	<b>11</b>
ATHC 350 Coaching Effectiveness .....	3
PGMP 101 Intro to Professional Golf Mngt .....	2
PGMP 201 Professional Golf Management Program: Level 1 .....	2
PGMP 301 Professional Golf Management Program: Level 2 .....	2
PGMP 401 Professional Golf Management Program: Level 3 .....	2

## Electives

*Specialization: Select 15 hours from the following major electives, with at least one course from three different areas, plus an additional 13 hours of free electives.*

	Hours
<b>Major Electives .....</b>	<b>15</b>
<b>Business</b>	
ECON 212 Principles of Microeconomics .....	3
MNGT 321 Business Plan Development .....	3
MNGT 331 Operations & Resources Management .....	3
MNGT 350 Intro to Management Information Systems .....	3
MNGT 421 Entrepreneurship & Venture Management .....	3
MRKT 345 Market Research .....	3
MRKT 347 Marketing Communication Strategy .....	3
MRKT 425 Retailing Management .....	3
MRKT 428 Sports Marketing .....	3
MRKT 442 Marketing Management .....	3
MRKT 443 Consumer Behavior: Marketing Aspects .....	3
<b>Leadership and Interpersonal Skills</b>	
ALEC 202 Leadership in Small Groups & Teams .....	3
ALEC 302 Dynamics of Effective Leadership in Organizations .....	3
ALEC 410 Environmental Leadership: An Historical & Ethical Perspective .....	3
<b>Plant Sciences</b>	
AGRO 366 Soil Nutrient Management .....	3
ENTO 115 Insect Biology .....	2
ENTO 116 Insect Identification .....	1
ENTO 303 Horticultural Insects .....	3
HORT 200 Landscape & Environmental Appreciation .....	3
HORT 212 Landscape Plants I .....	3
HORT 425 Turfgrass Science & Culture .....	3
HORT 452 Irrigation Systems Management .....	3
PLPT 369 Intro to Plant Pathology .....	3
<b>Food Service</b>	
NUTR 244 Scientific Principles of Food Preparation .....	3
NUTR 245 Scientific Principles of Food Preparation Lab .....	1
NUTR 370 Food Production Management .....	3
NUTR 371 Food Production Management Lab .....	1
NUTR 470 Cost Control for Food Service .....	2
NUTR 478 Tourism Resources & Development .....	3
<b>Free Electives .....</b>	<b>13</b>
<b>Total Credit Hours .....</b>	<b>128</b>

To meet PGA requirements, PGM students must:

- be formally accepted by written confirmation into the PGM Program;
- submit proof of playing ability equivalent to 12 handicap or better from a PGA professional or a high school golf coach;
- complete 16 months of internships in at least three different settings;
- participate in a Playing Ability Test once in first year and twice each succeeding year until the PAT is passed; and
- complete Level 3 of the PGA/PGM™ program prior to graduation.

Students are also expected to maintain a 2.5 grade point average, which is required for the College of Business Administration courses.

## Courses of Instruction (PGMP)

**101. Introduction to Professional Golf Management (2 cr I) Lec. Prereq:** Formal acceptance into Professional Golf Management Program (PGMP). Entry level course for students in or considering entering into PGMP. Integration of academic and the Professional Golfers' Association (PGA) requirements.

**201. Professional Golf Management Program: Level 1 (2 cr I) Lec. 1, lab 1. Prereq:** Good standing in PGMP and PGMP 101. Must register for PGMP 201 the semester after completion of the first PGMP internship. Career enhancement, introduction to teaching, golfer development programs and other PGA requirements.

**301. Professional Golf Management Program: Level 2 (2 cr I) Lec. Prereq:** Good standing in PGMP; PGMP 201; and completion of PGA Level 1. Must register for PGMP 301 the semester after completion of the second PGMP internship. Customer relations, business planning and operations, turfgrass management and business communications.

**401. Professional Golf Management Program: Level 3 (2 cr I) Lec. Prereq:** Good standing in PGMP; PGMP 301; and completion of PGA Level 2. Must register for PGMP 401 the spring semester after completion of the third PGMP internship. PGMP 401 requires completing a resume, a pre-portfolio and conducting a mock interview. Supervising and delegating, merchandise and inventory management, food and beverage control.

**489. Professional Golf Management Integration (3 cr I) Lec. Prereq:** Good standing in PGMP; PGMP 401; and completion of all PGA internships. PGMP 489 is to be taken concurrently in the fall semester when completing PGA Level 3. PGMP 489 requires an oral presentation and submission of a portfolio. All academic and PGA requirements must be met to pass PGMP 489. Capstone course for the PGMP major. Pulls together knowledge gained from the academic courses, internships and other aspects of the PGA/PGM Program.

## Horticulture

**Interim Head:** Professor Lowell E. Moser,  
 Department of Agronomy and Horticulture  
**Professors:** Fitzgerald, Gaussin, Gustafson, Horst, Paparozzi, Read, Riordan, Shearman  
**Associate Professors:** Hodges, Rodie, Sutton  
**Assistant Professor:** Todd  
**Lecturer:** Lambie  
**Industry Partner/Instructor:** Simmons

Horticulture requires a broad education including knowledge of production, management, improvement, distribution, processing, and utilization of fruits, vegetables, ornamentals, and turf. Horticulture relies on an understanding of the basic sciences and involves competence in communication, aesthetic appreciation, and an awareness of consumer needs.

The following options are open to majors in horticulture: horticulture science, horticulture, management, production, landscape design, horticulture communications, horticulture business, and turfgrass.

**PGMP Degree Requirements**

	Hours
<b>Business (College of Business Administration)</b> .....17-19	
ACCT 201 Introductory Accounting I (3 cr) and	
ACCT 202 Introductory Accounting II (3 cr) or	
ACCT 306 Survey of Accounting (4 cr).....4-6	
BSAD 150 Business Computer Applications.....1	
FINA 361 Finance.....3	
MNGT 320 Principles of Management.....3	
MNGT 361 Personnel/Human Resource	
Management.....3	
MRKT 341 Marketing.....3	
<b>Plant Sciences (CASNR)</b> .....7	
AGRO 153 Soil Resources.....4	
Select from:.....3	
PGMP 227 Introductory Turfgrass Management	
(3 hrs)	
PGMP 327 Turfgrass Science & Management (3 hr)	
<b>Food Service Management (Education and Human</b>	
<b>Sciences)</b> .....10	
NUTR 244 & 245 Scientific Principles of Food	
Preparation and Lab.....4	
NUTR 372 Food Safety & Sanitation.....3	
NUTR 374 Guest Services Management.....3	
<b>Supporting Courses</b> .....20	
ATHC 279 Coaching Effectiveness.....3	
PGMP 101 Intro to Professional Golf Management.....3	
PGMP 112 PGM Professional Development: First	
Year.....1	
PGMP 201 Professional Golf Management	
Program: Level 1.....3	
PGMP 212 PGM Professional Development: Second	
Year.....1	
PGMP 213 PGM Professional Development: Analysis of	
the Swing.....1	
PGMP 301 Professional Golf Management Program:	
Level 2.....3	
PGMP 312 PGM Professional Development: Third	
Year.....1	
PGMP 313 Professional Development: Merchandising	
PGMP 401 Professional Golf Management Program:	
Level 3.....3	
<b>Electives</b>	
Specialization: Select 12 hours from the following major	
electives, with at least one course from three different	
areas, plus an additional 8-12 hours of free electives.	
<b>Major Electives</b> .....15	
<b>Business</b>	
BLAW 372 Business Law I.....3	
MNGT 321 Business Plan Development.....3	
MNGT 331 Operations & Resources Management.....3	
MNGT 350 Intro to Management Information	
Systems.....3	
MNGT 421 Entrepreneurship & Venture	
Management.....3	
MRKT 345 Market Research.....3	
MRKT 347 Marketing Communication Strategy.....3	
MRKT 425 Retailing Management.....3	
MRKT 428 Sports Marketing.....3	
MRKT 442 Marketing Management.....3	
MRKT 443 Consumer Behavior: Marketing Aspects.....3	
<b>Leadership and Interpersonal Skills</b>	
ALEC 202 Leadership in Small Groups & Teams.....3	
ALEC 302 Dynamics of Effective Leadership in	
Organizations.....3	
ALEC 410 Environmental Leadership.....3	
<b>Natural Sciences</b>	
AGRO 366 Soil Nutrient Management.....3	
ENTO 115 Insect Biology.....3	
ENTO 116 Insect Identification.....1	
ENTO 303 Horticultural Insects.....3	
HORT 200 Landscape & Environmental	
Appreciation.....3	
HORT 212 Landscape Plants I.....3	
HORT 452 Irrigation Systems Management.....3	
NRES 208 Applied Climate Science.....3	
PGMP 227 Introductory Turfgrass Management.....3	
PGMP 327 Turfgrass Science & Management.....3	
PGMP 328 Turfgrass Equipment.....1	
PGMP 427 Critical Thinking in Turfgrass	
Management.....3	
PHYS 151 Elements of Physics.....4	

PLPT 369 Intro to Plant Pathology.....3	
TLMT 427 Critical Thinking in Turfgrass	
Management.....3	
<b>Food Service</b>	
NUTR 370 Food Production Management.....3	
NUTR 371 Food Production Management Lab.....1	
NUTR 470 Cost Control for Food Service.....2	
NUTR 474 Food & Beverage Management.....3	
<b>Free Electives</b> .....8-12	
<b>Total Credit Hours</b> .....128	

To meet PGA requirements, PGMP students must:

- be formally accepted by written confirmation into the PGM Program;
- submit proof of playing ability equivalent to 12 handicap or better;
- complete 16 months of internships in at least three different settings;
- participate in a Playing Ability Test once in first year and twice each succeeding year until the PAT is passed; and
- complete Level 3 of the PGA/PGM™ program prior to graduation.

Students are also expected to maintain a 2.5 grade point average, which is required for the College of Business Administration courses.

**Courses of Instruction (PGMP)**

**101. Introduction to Professional Golf Management (3 cr I) Lec 2, rct 1.** Prereq: Acceptance into the Professional Golf Management Program (PGMP). PGMP 101 requires starting the process of conducting first assignments in Level 1 of PGA/PGM Work Experience Kit.

Integration of academic and the Professional Golfers' Association (PGA) requirements. Overview of knowledge and concepts in Level 1 of the PGA/PGM program. Completion of the second set of learning objectives in Level 1 of PGA/PGM relating to the PGA Constitution, Career Enhancement, Golfer Development Programs, and Tournament Operations.

**112. PGM Professional Development: First Year (1 cr II) Lec 1.** Prereq: PGMP 101. Additional learning objectives from Level 1 of the PGA/PGM. Preparation for first PGMP internship.

**201. Professional Golf Management Program: Level 1 (3 cr I) Lec 2, rct 1.** Prereq: PGMP 112. Must register for PGMP 201 the semester after completion of the first PGMP internship. Students will be tested over all ten Level 1 learning objectives in PGA/PGM Checkpoint 1 the semester following the completion of PGMP 201. Completion of the learning objectives in Level 1 of the PGA/PGM relating to Tournament Operations, Rules of Golf, Golf Car Fleet Management, Introduction to Teaching, and Club Repair and Design.

**212. PGM Professional Development: Second Year (1 cr II) Lec 1.** Prereq: PGMP 201. PGA/PGM Checkpoint 1 takes place during spring break. Integration of the knowledge and concepts covered in PGMP 101, 112, and 201 to prepare for the PGA/PGM Checkpoint 1. Preparation for second PGMP internship.

**213. Professional Development: Analysis of the Swing (1 cr II) Lec 1.** Prereq: PGMP 201. PGMP 212 is a mini-course and has guest lectures. Instruction from specialists in the subject matter area.

**227. Introductory Turfgrass Management (TLMT, AGRO, HORT 227) (3 cr II) Lec 2, lab 3.** Prereq: AGRO 131 or HORT 130 or BIOS 109. For course description, see TLMT 227.

**228. Introduction to Landscape Management (TLMT, AGRO, HORT 228) (3 cr II) Lec 2, lab 3.** Prereq: AGRO 131 or BIOS 109. TLMT/AGRO/HORT/PGMP 228 uses a team approach to problem solving, discussion, assessment planning and oral presentations of applied case studies. For course description, see TLMT 228.

**295. Professional Golf Management Extended Internship (0-12 cr, max 24 I, II, III) Fld.** Prereq: Sophomore standing; PGMP 101; permission of PGMP Internship Coordinator. Credit in PGMP 295 does not count toward graduation. All students in PGMP that are participating in an extended internship may register each term while on the internship. Pass/No Pass only. Cooperative education work in a regularly established internship in the PGMP curriculum.

**301. Professional Golf Management Program: Level 2 (3 cr I) Lec 2, rct 1.** Prereq: PGMP 201; completion of PGA/PGM Level 1. Must register for PGMP 301 the semester after completion of the second PGMP internship. Testing over all Level 2 learning objectives in PGA/PGM Checkpoint 2 takes place the semester following completion of PGMP 301. Completion of the learning objectives in Level 2 of the PGA/PGM.

**302. Golf for Success in Business and Life (1 cr I) Fld.** Prereq: Junior standing. Pass/No Pass only. There are additional fees that apply to PGMP 302 that are over and above the standard tuition and fees. Enrollment is limited. Contact the instructor for details. Not open to PGMP majors. Instructor provided by PGA professionals in golf course setting. Basic knowledge and skills of golf. Golf as a business tool.

**312. PGM Professional Development: Third Year (1 cr II) Lec 1.** Prereq: PGMP 301. The PGA/PGM Checkpoint 2 takes place during spring break. Integrates the knowledge and concepts covered in PGMP 201, 212, and 301 to prepare for PGA/PGM Checkpoint 2. Preparation for third PGMP internship.

**313. Professional Development: Merchandising (1 cr II) Lec 1.** Prereq: PGMP 201. PGMP 313 is a mini-course and has guest lectures. Instruction from specialists in the subject matter area.

**326. Landscape Solutions (TLMT, AGRO, HORT 326) (3 cr I) Lec 1, lab 4.** Prereq: TLMT/AGRO/HORT/PGMP 227 or 228. For course description, see TLMT 326.

**[ES] 327. Turfgrass Science and Management (TLMT, AGRO, HORT 327) (3 cr I) Lec 2, lab 3.** Prereq: AGRO/HORT/BIOS 153, BIOS 109, CHEM 109 or parallel, or HORT 221. For course description, see TLMT 327.

**328. Turfgrass Equipment (TLMT, AGRO, HORT 328) (1 cr I) Lec 1, lab 2.** For course description, see TLMT 328.

**401. Professional Golf Management Program: Level 3 (3 cr I) Lec 2, rct 1.** Prereq: PGMP 301; completion of PGA/PGM Level 2. Must register for PGMP 401 the semester after completion of the third PGMP internship. Testing over all Level 3 learning objectives in PGA/PGM Checkpoint 3 takes place the semester following completion of PGMP 401. Completion of the learning objectives in Level 3 of the PGA/PGM.

**427. Critical Thinking in Turfgrass Management (TLMT 427; AGRO, HORT 427/827) (3 cr I) Lec 2, lab 2.** Prereq: 9 hrs agricultural plant science and 3 hrs soil science. Capstone course. TLMT/AGRO/HORT/PGMP 427/827 involves class discussion, use studies, field trips, and demonstrations. For course description, see TLMT 427.

**489. Professional Golf Management Integration\* (3 cr I) Lec 3.** Prereq: PGMP 401. PGMP 489 is to be taken concurrently in the fall semester when completing Level 3 of the PGA/PGM. PGMP 489 requires an oral presentation and submission of a portfolio. All academic and PGA requirements must be met to pass PGMP 489. Capstone course for the PGMP major. Pulls together knowledge gained from the academic courses, internships, and other aspects of PGA/PGM Checkpoint 3.

**Turfgrass and Landscape Management**

Coordinator: Professor Robert Shearman, 377M Plant Science

This degree program provides undergraduates with education and skills in the management of turfgrasses and landscape plants in a comprehensive set



scientific, regulatory, and international trade developments on plant pests management.

**270. Biological Invaders (AGRO/HORT/NRES 270) (3 cr I) Pre-req: 3 hrs biological sciences.**

Impact of exotic species and invasive organisms: agricultural and medical emerging disease; predicting biological invasions; biological control; regulatory, monitoring, and control efforts; ecological impact.

[ES][IS] **369. Introductory Plant Pathology (BIOS 369) (3 cr I) Lec/dem 3. Pre-req: BIOS 101 and 101L, or 109. PLPT 300 is not an IS course and may not be used for D/F removal in PLPT 369. Credit towards the degree may be earned in only one of PLPT 300 or 369. Introduction to the study of plant diseases including relation of plant disease to crop production, environment, and man. Examples and demonstrations emphasize horticultural and agronomic crops of Nebraska.**

**369L. Introductory Plant Pathology Lab (1 cr I) Lab. Pre-req: Parallel PLPT 369. Optional lab for PLPT 369.**

**370. Biology of Fungi (AGRO/HORT 370) (3 cr I) Pre-req: 8 hrs biological sciences.**

Survey of fungi in natural and human ecosystems: symbiotic relationships; as disease agents in humans, animals, and plants; applications in food, agricultural, and pharmaceutical industries; historical and current impacts on society.

**390. Current Topics in Plant Protection III (AGRO, ENTO, HORT 390) (1 cr, max 2 II) Lec 1. Pre-req: Junior standing. Microbe, insect, and weed pests of plants in agricultural, landscape, and natural ecosystems. Potential impacts of new scientific, regulatory, and international trade developments on plant pests management.**

**475. Agricultural Biosecurity (3 cr) Lec. Pre-req: 3 hrs BIOS; 3 hrs CHEM; and course work in one of the following areas: AGRO, VBMS, ASCL, ECON, ENTO, NRES, FDST, and plant protection. Introductory microbiology and biochemistry recommended. Team projects. Natural resources, plant and animal health and productivity from the perspective of biosafety, biosecurity, bioterrorism, and biohazard. Laws and regulations, economic effects, and countermeasures.**

**495. Internship in Plant Pathology (1-3 cr, max 5 Ind. Pre-req: Junior standing. Pass/No Pass only. Completion and approval of an internship proposal form is required before registering. Experience in a work place setting that is directly related to Plant Pathology.**

**496. Independent Study (1-5 cr, max 5 I, II, III) Ind. Pre-req: Advanced approval of the plan of study and permission. Individual or group projects. Research, literature review, extension of course work, or preparation of teaching materials.**

**498. Independent Research (1-3 cr, max 6) Pre-req: Permission. Independent research in areas of plant pathology.**

**499H. Honors Thesis (3-6 cr I, II, III) Pre-req: Admission to the University Honors Program and permission. AGRI 299H recommended. Conduct a scholarly research project and write a University Honors Program or undergraduate thesis.**

**\*813. Biological Control of Pests (ENTO \*813) (3 cr II) Lec 3. Pre-req: 12 hrs BIOS and/or agricultural sciences. ENTO/PLPT \*813 is offered spring semester of even-numbered calendar years.**

**\*864A. Principles of Plant Pathology I (BIOS \*864A) (3 cr) Lec/dem 2. Pre-req: PLPT 369 or equivalent and introduction to biochemistry or permission.**

**\*864B. Principles of Plant Pathology II (BIOS \*864B) (3 cr II) Lec/dem 2. Pre-req: PLPT 369 or equivalent and introduction to biochemistry or permission.**

**\*865. Insect Transmission of Plant Diseases (BIOS, ENTO \*865) (2 cr II) Lec 2. Pre-req: 8 hrs biological sciences including BIOS 464A/864A preceding or parallel and 6 hrs entomology or biological sciences (zoology). Offered even-numbered calendar years.**

**\*866. Phytopathogenic Nematodes (BIOS \*866) (3 cr I) Lec 2, lab 3. Pre-req: BIOS 464A/864A or \*864B or permission. Offered odd-numbered calendar years.**

**\*867. Plant Associated Microbes (4 cr II) Lec 3, lab 3. Pre-req: A course in general microbiology, bacteriology, or mycology. A course in general plant pathology is highly recommended. PLPT \*867 is offered odd-numbered calendar years.**

**\*869. Phytopathogenic Fungi (BIOS \*869) (3 cr II) Lec 1, lab 2. Pre-req: BIOS 312, 864A or \*864B, 805 or equivalent, with permission. Offered even-numbered calendar years.**

**898. Problems in Biological Sciences (BIOS 898) (1-6 cr, max 16) Pre-req: 12 hrs biological sciences and permission.**

**899. Masters Thesis (BIOS 899) (6-10 cr)**

Refer to the Graduate Bulletin for 900-level courses.

## Plant Protection Sciences

### Plant Protection Sciences Curriculum Committee

Chair: Professor J. E. Partridge, Department of Plant Pathology, 406 Plant Sciences

Professors: Powers (plant pathology), Yuen (plant pathology)

Plant protection sciences is a wide and multifaceted field of study. Students pursuing this degree will prepare themselves for careers that involve the application of biology, ecology and chemistry for the protection of plants that are useful and beneficial to man. Students in this degree program will study plants as well as the biologies and management of their associated pests and parasites. Students will also learn to understand the interactions of these beneficial and destructive organisms within various environments which result in reduced plant vigor, health or yield loss. These situations may also lead to plant products that are unsafe or toxic for human and animal consumption.

Students successfully completing the requirements for graduation in this degree program may find employment opportunities in such areas as: government regulatory services, commercial inspection and home security agencies; consulting companies; agricultural industries; and plant breeding companies. Students considering graduate studies will find themselves well prepared for that pursuit as well.

The Plant Protection Sciences curriculum provides students with the course work background required for application for professional certification. The Plant Protection Sciences Curriculum Committee in the College of Agricultural Sciences and Natural Resources serves as the administrative body for this degree program and is responsible for advising students selecting this degree program.

## Requirements

	Hours
College Integrative Courses.....	6
AGRI 103 Intro to Agriculture & Natural Resource Systems.....	3
AGRO/ENTO/PLPT 480 Integrative Plant Protection Sciences (Capstone).....	3
Natural Sciences.....	33
AGRO 315 Genetics.....	4
BIOS 109 Botany.....	4
BIOS 101 & 101L Intro to Biology & Lab.....	4
Biology elective.....	4
Select from: AGRO 325; BIOS 207, 381, 471, or 478	
CHEM 109 General Chemistry I.....	4

CHEM 110 General Chemistry II.....	4
CHEM 251 & 253 Organic Chemistry & Lab.....	4
PHYS 141 Elementary General Physics or PHYS 151 & 153 Elements of Physics & Lab or PHYS 211 & 221 General Physics & Lab or MSYM 109 & 109L Physical Principles in Agriculture & Lab.....	5
Mathematics and Statistics (beyond college algebra)....	5
Select from: MATH 102, 104, 106, 203, and STAT 218	
Students must take MATH 203 prior to STAT 218 to receive UNL credit for both MATH 203 and STAT 218.	
Communications.....	6
Written Communication.....	3
Select from: ENGL 150, 151, 254; JGEN 120, 200	
Communication and Interpersonal Skills electives....	3
Select from: ENGL 101, 150, 151, 252, 253, 254; ALEC 102; JGEN 120, 200, 300; COMM 109, 209, 212, or 286	
Economics, Humanities and Social Sciences.....	18
ECON 211 or ECON 212 or AECN 141.....	3
ACE Courses.....	12
Select one course each from ACE outcomes 5, 7, 8, and 9.	
Select one elective in this area.....	3
Plant Protection Sciences.....	40
AGRI 200 Intro to Pesticides.....	2
AGRO 153 Soil Resources.....	4
AGRO 426 Invasive Plants.....	3
ENTO 115 Insect Biology.....	3
ENTO 116 Insect Identification.....	1
PLPT 160 Current Topics in Plant Protection I.....	1
PLPT 260 Current Topics in Plant Protection II.....	1
PLPT 369 & 369L Intro to Plant Pathology & Lab.....	4
PLPT 390 Current Topics in Plant Protection III.....	1
Internship.....	3
Select from: AGRO 496, ENTO 496, HORT 496, PLPT 496	
Plant Science/Production electives.....	7
Select from: AGRO 131 and 132, 204, 240; HORT 130, 325, 327	
Plant Protection Sciences electives.....	10
Selection of electives must be done with adviser to assure proper progress towards certification desired.	
Entomology.....	
Select from: ENTO 109, 303, 308, 400, 401, 406	
Plant Pathology.....	
Select from: PLPT 270, 370; BIOS 312 and 313	
Weed Science.....	
Select from: AGRO 412	
Free Elective*.....	20
Total Requirements for Graduation.....	128

## Integrated Pest Management Minor

A minor in integrated pest management will include a minimum of 18 hours of pest management-related courses including three core courses (AGRO 426 Invasive Plants, PLPT 369 Introduction to Plant Pathology, and either ENTO 308 Management of Field Crop Insects or ENTO 303 Horticultural Insects). The remaining pest management courses must be approved by a member of the Plant Protection Sciences Curriculum Committee. At least 6 hours must be at the 300 or 400 level and up to 3 hours of pest management related independent study course work may be included.

## PGA Golf Management

PGA Golf Management Office: Martin Massengale, 304 Biochemistry Hall

Faculty Advisory Committee: Heng-Moss (entomology); Horst, Shearman (horticulture); Schnepf (nutritional science and dietetics); Zorn (finance)

6 Depending on career goals; students, in consultation with their advisers, may wish to consider minors and/or a dual major.

The PGA Golf Management degree program is designed for students who wish to be educated in all aspects of the golf industry and become PGA members. This comprehensive program blends college academic requirements with requirements of the Professional Golfers' Association of America's PGA Golf Management Program (PGA/PGM™), and includes structured internship experiences. The purpose of the program is to produce a graduate that has a basic background in managing golf facilities and related organizations, business and personnel management, restaurant and hospitality management, recreation, and golf instruction methods. Upon graduation, a student is eligible for PGA Class "A" membership.

The program's Web site is [pgm.unl.edu](http://pgm.unl.edu).

### CASNR Requirements

	Hours
<b>College Integrative Courses</b> .....	6
AGRI 103 Intro to Agriculture & Natural Resource Systems.....	3
PGMP 489 Professional Golf Management Integration.....	3
<b>Mathematics and Statistics (beyond college algebra)</b> .....	5
Select from MATH 102, 104, 106 and STAT 218.	
NOTE: Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. If MATH 103 is taken, only 2 cr hrs can be counted toward this requirement.	
<b>Communications</b> .....	9
Written Communication.....	3
Select from: ENGL 150, 151, 254; JGEN 120, 200, 300	
Oral Communication.....	3
Select from: COMM 109, 209, or 286	
<b>Leadership</b> .....	3
ALEC 102 Interpersonal Skills for Leadership.....	3
<b>Natural Sciences</b> .....	10-11
AGRO 131 Plant Science.....	3
CHEM 105 Chemistry in Context I or CHEM 109 General Chemistry I.....	4
Select from.....	3-4
BIOS 101 & 101L General Biology & Lab (4 hrs)	
BIOS 109 General Botany (4 hrs)	
ENTO 115 Insect Biology (3 hrs) (preferred)	
<b>Economics, Humanities and Social Sciences</b> .....	18
ECON 211 and ECON 212.....	6
ACE Courses.....	9
Select one course each from ACE outcomes 5, 7, and 9.	
Select one elective in this area.....	3

### PGA Golf Management Degree Requirements

	Hours
<b>Additional Plant Sciences</b> .....	7
AGRO 153 Soil Resources.....	4
PGMP 227 Introductory Turfgrass Management or PGMP 327 Turfgrass Science & Management.....	3
<b>Food Service Management</b> .....	9
HRTM 374 Guest Services Management.....	3
NUTR 373 Catering.....	3
NUTR 474 Food & Beverage Management.....	3
<b>Business</b> .....	17-19
ACCT 201 Introductory Accounting I (3 cr) and ACCT 202 Introductory Accounting II (3 cr) or ACCT 306 Survey of Accounting (4 cr).....	4-6
BSAD 150 Business Computer Applications.....	1
FINA 361 Finance.....	3
MNGT 320 Principles of Management.....	3
MNGT 361 Personnel/Human Resource Management.....	3
MRKT 341 Marketing.....	3
<b>PGMP Courses</b> .....	17
PGMP 101 Intro to Professional Golf Management.....	3
PGMP 112 PGM Professional Development: First Year.....	1

PGMP 201 Professional Golf Management Program: Level 1.....	3
PGMP 212 PGM Professional Development: Second Year.....	1
PGMP 213 Professional Development: Analysis of the Swing.....	1
PGMP 295 PGM Extended Internship.....	0
PGMP 301 Professional Golf Management Program: Level 2.....	3
PGMP 312 PGM Professional Development: Third Year.....	1
PGMP 313 Professional Development: Merchandising.....	1
PGMP 401 Professional Golf Management Program: Level 3.....	3
<b>Other</b> .....	3
ATHC 279 Coaching Effectiveness.....	3
<b>Specialization Electives</b> .....	12
Select a minimum of 12 hours from the following:	
ALEC 202 Leadership in Small Groups & Teams (3 cr)	
ALEC 302 Dynamics of Effective Leadership in Organizations (3 cr)	
ALEC 410 Environmental Leadership (3 cr)	
AGRO 366 Soil Nutrient Management (3 cr)	
BLAW 372 Business Law I (3 cr)	
ENTO 303 Horticultural Insects (3 cr)	
HORT 200 Landscape & Environmental Appreciation (3 cr)	
HORT 212 Landscape Plants I (3 cr)	
HORT 452 Irrigation Systems Management (3 cr)	
MNGT 331 Operations & Resources Management (3 cr)	
MNGT 350 Intro to Management Information Systems (3 cr)	
MNGT 421 Entrepreneurship & Venture Management (3 cr)	
MRKT 345 Market Research (3 cr)	
MRKT 347 Marketing Communication Strategy (3 cr)	
MRKT 425 Retailing Management (3 cr)	
HORT 452 Irrigation Systems Management (3 cr)	
MRKT 442 Marketing Management (3 cr)	
MRKT 443 Consumer Behavior: Marketing Aspects (3 cr)	
NRES 208 Applied Climate Science (3 cr)	
NUTR 372 Food Safety & Sanitation (3 cr)	
NUTR 470 Cost Control for Food Service (2 cr)	
NUTR 471 Vines, Wines & You (3 cr)	
PGMP 227 Introductory Turfgrass Management (if not taken above) (3 cr)	
PGMP 327 Turfgrass Science & Management (if not taken above) (3 cr)	
PGMP 328 Turfgrass Equipment (1 cr)	
PGMP 427 Critical Thinking in Turfgrass Management (3 cr)	
PHYS 151 Elements of Physics (4 cr)	
PLPT 369 Intro to Plant Pathology (3 cr)	
<b>Free Electives</b> .....	12-15
<b>Total Credit Hours</b> .....	128

To meet PGA requirements, PGMP students must:

- be formally accepted by written confirmation into the PGA Golf Management program;
- submit proof of playing ability equivalent to 12 handicap or better;
- complete 16 months of internships in at least three different settings;
- participate in a Playing Ability Test once in first year and twice each succeeding year until the PAT is passed; and
- complete Level 3 of the PGA Golf Management program prior to graduation.

Students are also expected to maintain a 2.5 grade point average, which is required for the College of Business Administration courses.

### Courses of Instruction (PGMP)

**101. Introduction to Professional Golf Management (3 cr I) Lec 2, rct 1.** Prereq: Acceptance into the Professional Golf Management Program (PGMP). PGMP 101 requires starting the process of conducting first assignments in Level 1 of PGA/PGM Work Experience Kit. Integration of academic and the Professional Golfers' Association (PGA) requirements. Overview of knowledge and concepts in Level 1 of the PGA/PGM program. Completion of the second set of learning objectives in Level 1 of PGA/PGM relating to the PGA Constitution, Career Enhancement, Golfer Development Programs, and Tournament Operations.

**112. PGM Professional Development: First Year (1 cr II) Lec 1.** Prereq: PGMP 101. Additional learning objectives from Level 1 of the PGA/PGM. Preparation for first PGMP internship.

**201. Professional Golf Management Program: Level 1 (3 cr I) Lec 2, rct 1.** Prereq: PGMP 112. Must register for PGMP 201 the semester after completion of the first PGMP internship. Students will be tested over all ten Level 1 learning objectives in PGA/PGM Checkpoint 1 the semester following the completion of PGMP 201. Completion of the learning objectives in Level 1 of the PGA/PGM relating to Tournament Operations, Rules of Golf, Golf Car Fleet Management, Introduction to Teaching, and Club Repair and Design.

**212. PGM Professional Development: Second Year (1 cr II) Lec 1.** Prereq: PGMP 201. PGA/PGM Checkpoint 1 takes place during spring break. Integration of the knowledge and concepts covered in PGMP 101, 112, and 201 to prepare for the PGA/PGM Checkpoint 1. Preparation for second PGMP internship.

**213. Professional Development: Analysis of the Swing (1 cr II) Lec 1.** Prereq: PGMP 201. PGMP 212 is a mini-course and has guest lectures. Instruction from specialists in the subject matter area.

**227. Introductory Turfgrass Management (TLMT, AGRO, HORT 227) (3 cr II) Lec 2, lab 3.** Prereq: AGRO 131 or HORT 130 or BIOS 109. For course description, see TLMT 227.

**228. Introduction to Landscape Management (TLMT, AGRO, HORT 228) (3 cr II) Lec 2, lab 3.** Prereq: AGRO 131 or HORT 130 or BIOS 109. TLMT/AGRO/HORT/PGMP 228 uses a team approach to problem solving, discussion, assessment planning and oral presentations of applied case studies. For course description, see TLMT 228.

**295. Professional Golf Management Extended Internship (0-12 cr, max 24 I, II, III) Fld.** Prereq: Sophomore standing; PGMP 101; permission of PGMP Internship Coordinator. Credit in PGMP 295 does not count toward graduation. All students in PGMP that are participating in an extended internship may register each term while on the internship. Pass/No Pass only. Cooperative education work in a regularly established internship in the PGMP curriculum.

**301. Professional Golf Management Program: Level 2 (3 cr I) Lec 2, rct 1.** Prereq: PGMP 201; completion of PGA/PGM Level 1. Must register for PGMP 301 the semester after completion of the second PGMP internship. Testing over all Level 2 learning objectives in PGA/PGM Checkpoint 2 takes place the semester following completion of PGMP 301. Completion of the learning objectives in Level 2 of the PGA/PGM.

**302. Golf for Success in Business and Life (1 cr I) Fld.** Prereq: Junior standing. Pass/No Pass only. There are additional fees that apply to PGMP 302 that are over and above the standard tuition and fees. Enrollment is limited. Contact the instructor for details. Not open to PGMP majors. Instructor provided by PGA professionals in golf course setting. Basic knowledge and skills of golf. Golf as a business tool.

**312. PGM Professional Development: Third Year (1 cr II) Lec 1.** Prereq: PGMP 301. The PGA/PGM Checkpoint 2 takes place during spring break. Integrates the knowledge and concepts covered in PGMP 201, 212, and 301 to prepare for PGA/PGM Checkpoint 2. Preparation for third PGMP internship.

**313. Professional Development: Merchandising** (1 cr II) Lec 1. Prereq: PGMP 201. PGMP 313 is a mini-course and has guest lectures.  
Instruction from specialists in the subject matter area.

**326. Landscape Solutions** (TLMT, AGRO, HORT 326) (3 cr I) Lec 1, lab 4. Prereq: TLMT/AGRO/HORT/PGMP 227 or 228. For course description, see TLMT 326.

**[ES] 327. Turfgrass Science and Management** (TLMT, AGRO, HORT 327) (3 cr I) Lec 2, lab 3. Prereq: AGRO/HORT/BIOS 153, BIOS 109, CHEM 109 or parallel, or HORT 221. For course description, see TLMT 327.

**328. Turfgrass Equipment** (TLMT, AGRO, HORT 328) (1 cr I) Lec 1, lab 2. For course description, see TLMT 328.

**401. Professional Golf Management Program: Level 3** (3 cr I) Lec 2, rct 1. Prereq: PGMP 301; completion of PGA/PGM Level 2. Must register for PGMP 401 the semester after completion of the third PGMP internship. Testing over all Level 3 learning objectives in PGA/PGM Checkpoint 3 takes place the semester following completion of PGMP 401.  
Completion of the learning objectives in Level 3 of the PGA/PGM.

**(ACE 10) 427. Critical Thinking in Turfgrass Management** (TLMT 427; AGRO, HORT 427/827) (3 cr I) Lec 2, lab 2. Prereq: 9 hrs agricultural plant science and 3 hrs soil science. Capstone course. TLMT/AGRO/HORT/PGMP 427/827 involves class discussion, case studies, field trips, and demonstrations.  
For course description, see TLMT 427.

**(ACE 10) 489. Professional Golf Management Integration**<sup>1</sup> (3 cr I) Lec 3. Prereq: PGMP 401. PGMP 489 is to be taken concurrently in the fall semester when completing Level 3 of the PGA/PGM. PGMP 489 requires an oral presentation and submission of a portfolio. All academic and PGA requirements must be met to pass PGMP 489. Capstone course for the PGMP major.  
Pulls together knowledge gained from the academic courses, internships, and other aspects of PGA/PGM Checkpoint 3.

## Turfgrass and Landscape Management

Coordinator: Professor Robert Shearman, 377M Plant Science

This degree program provides undergraduates with education and skills in the management of turfgrasses and landscape plants in a comprehensive set of situations, and pertinent business relationships related to careers in the Green Industry. Turfgrass and landscape plants and their management are closely related and highly interactive in urban, suburban, and rural environments. In this degree program, students will share course work and experiences in key courses giving them a broader perspective and working knowledge for greater success in their chosen careers.

The core curriculum of this degree program provides students with a balanced education focusing on turfgrass and landscape plant management, biology and function, sustainability and environmental concerns, as well as courses in mathematics, science and humanities. Students in this degree program will select either the Turfgrass Management or Landscape Management Option, allowing them to focus on important aspects that are distinct to their selected career path.

**Turfgrass Management Option** is designed for students considering careers as golf course superintendents, sports turf managers, resort grounds managers, lawn care service owners and operators, institution and grounds managers, estate managers, sod producers, sales representatives,

industry technical representatives, educators, and consultants. This option is also suitable for considering graduate study, or careers in academia and research.

**Landscape Management Option** is designed for students interested in careers as landscape management contractors, landscape management service providers, botanical garden and arboretum directors or managers, landscape plant producers, estate managers, sales representatives, industry technical representatives, educators and consultants. This option also provides preparation for graduate study, or careers in academia.

### Requirements

The following basic courses are required for students in the Turfgrass and Landscape Management (TLMT) degree program. In addition, students must select and meet the requirements of one of the options.

### CASNR Requirements

<b>College Integrative Courses</b> .....	6
AGRI 103 Intro to Agriculture & Natural Resources..	3
Select from one of the following courses:.....	3
TLMT 427 Critical Thinking in Turfgrass Management (3 cr)	
TLMT 470 <sup>1</sup> Critical Thinking in Landscape Management (3 cr)	
<sup>1</sup> Capstone Course Required for the Turfgrass Management Option	
<sup>2</sup> Capstone Course Required for the Landscape Management Option	
<b>Mathematics and Statistics (beyond college algebra ...)</b>	5
Select from:	
MATH 102 Trigonometry .....	2
MATH 106 Analytical Geometry & Calculus I .....	5
STAT 218 Intro to Statistics.....	3
<b>Communications</b> .....	6
Select 3-cr from each of the following areas:	
Written Communications:.....	3
ENGL 150 Writing: Rhetoric as Inquiry (3 cr)	
ENGL 151 Writing: Rhetoric as Argument (3 cr)	
ENGL 254 Rhetorical Practice & Writing Communities (3 cr)	
JGEN 120 Basic Business Communications (3 cr)	
JGEN 200 Technical Communications I (3 cr)	
JGEN 300 Technical Communications II (3 cr)	
Communications & Interpersonal Skills: .....	3
COMM 109 Fundamentals of Human Communications (3 cr)	
COMM 209 Public Speaking (3 cr)	
COMM 212 Debate (3 cr)	
COMM 286 Business & Professional Communication (3 cr)	
ALEC 102 Interpersonal Skills For Leadership (3 cr)	
<b>Natural Sciences</b> .....	12
CHEM 105 Chemistry in Context I .....	4
CHEM 106 Chemistry in Context II.....	4
MSYM 109 Physical Principles in Agriculture .....	4
Students interested in advanced studies beyond the B.S. degree are encouraged to take CHEM 109 and CHEM 110. Students may substitute PHYS 141, PHYS 151, or PHYS 211 for MSYM 109.	
<b>Economics, Humanities and Social Sciences</b> .....	15
ECON 211 or ECON 212 or AECN 141 .....	3
ACE Courses.....	12
Select one course each from ACE outcomes 5, 7, 8, and 9.	

### TLMT Degree Requirements

<b>Requirements</b> .....	35
BIOS 109 General Botany .....	4
AGRO 131 Plant Science .....	3
AGRO 132 Plant Science Lab.....	1
AGRO 153 Soil Resources.....	4

TLMT 227 Intro to Turfgrass Management.....	3
TLMT 228 Intro to Landscape Management.....	3
Leadership and Professional Skills.....	5-8
ALEC 102 plus two career experiences for a minimum of 2 cr in either TLMT 395 or TLMT 295 must be taken)	
ALEC 102 <sup>1</sup> Interpersonal Skills for Leadership (3 cr)	
TLMT 395 or TLMT 295 <sup>2</sup> Career Experience or Extended Internship (2-5 cr)	
<sup>1</sup> Also meets CASNR requirement for Communications and interpersonal skills	
<sup>2</sup> A minimum of 2 cr required; up to 5 cr may be taken	
Plant Identification and Utilization.....	6
Select a minimum of 6 cr from the following:	
HORT 212 Landscape Plants I (3 cr)	
HORT 213 Landscape Plants II (3 cr)	
HORT 214 Herbaceous Landscape Plants (3 cr)	
Plant Growth and Development.....	7
Select a minimum of 7 cr from the following:	
HORT 221 Plant Propagation (3 cr)	
AGRO 315 Genetics (4 cr)	
AGRO 325 Introductory Plant Physiology (4 cr)	

### Turfgrass Management Option

<b>Option Requirements</b> .....	46
The following courses are required for the option:	
TLMT 327 Turfgrass Science & Management.....	3
TLMT 328 Turfgrass Equipment .....	1
TLMT 480 Modified Rootzones .....	1
TLMT 413 Turfgrass & Landscape Weed Management.....	1
TLMT 420 Turfgrass & Landscape Insect Management.....	1
TLMT 430 Turfgrass & Landscape Disease Management.....	1
TLMT 440 Turfgrass & Landscape Integrated Pest Management.....	1
Pests and Environment.....	12
Select from the following:	
ENTO 115 Insect Biology (3 cr)	
ENTO 116 Insect Identification (1 cr)	
AGRO 426 Invasive Plants (3 cr)	
AGRO 269 Principles of Soils Management (3 cr)	
ENTO 403 Horticultural Insects (3 cr)	
TLMT 326 Landscape Solutions (3 cr)	
AGRO 366 Soil Nutrient Relationships (4 cr)	
PLPT 369 Intro to Plant Pathology (3 cr)	
HORT 452 Irrigation Systems Management (3 cr)	
HORT 470 Critical Thinking in Landscape Management (3 cr)	
NRES 208 Applied Climate Sciences (3 cr)	
ENTO 300 Toxins in the Environment (2 cr)	
NRES 348 Wildlife Damage Management (3 cr)	
GEOL 418 Chemistry of Natural Waters (3 cr)	
<b>Business and Personnel Management</b> .....	12
Select from the following:	
ACCT 201 Introductory Accounting I (3 cr)	
ACCT 202 Introductory Accounting II (3 cr)	
ACCT 306 Survey of Accounting (3 cr)	
ECON 211 Principles of Macroeconomics (3 cr)	
ECON 212 Principles of Microeconomics (3 cr)	
MNGT 320 Principles of Management (3 cr)	
MNGT 361 Personnel/Human Resource Management (3 cr)	
FINA 361 Finance (3 cr)	
MRKT 341 Marketing (3 cr)	
HORT 488 Business Management for Horticultural Enterprises (3 cr)	
<b>Free Electives</b> .....	13
<b>Total Credit Hours</b> .....	128

### Landscape Management Option

<b>Option Requirements</b> .....	46
The following courses are required for the option:	
TLMT 326 Landscape Solutions .....	3
TLMT 329 Landscape Equipment.....	1
TLMT 480 Modified Rootzones .....	1
TLMT 330 Pruning Ornamentals .....	1
TLMT 413 Turfgrass & Landscape Weed Management.....	1
TLMT 420 Turfgrass & Landscape Insect Management.....	1
TLMT 430 Turfgrass & Landscape Disease Management.....	1

UNIVERSITY OF NEBRASKA-LINCOLN

**N** UNDERGRADUATE BULLETIN 2010-2011

AGRICULTURAL SCIENCES &amp; NATURAL RESOURCES

**PGA Golf Management****Quick points**

<b>College:</b>	Agricultural Sciences & Natural Resources
<b>Degree Offered:</b>	Bachelor of Science in PGA Golf Management
<b>Hours Required:</b>	125
<b>Minimum Cumulative GPA:</b>	2.0 for graduation
<b>Minor Available:</b>	No
<b>Chief Adviser:</b>	Alan Baquet

**DESCRIPTION**

**Director:** Alan Baquet, PGA Golf Management Program, 203 Kein Hall  
**Faculty Advisory Committee:** Heng-Moss (entomology); Horst, Shearman (horticulture); Schnepf (nutrition and health sciences); Zorn (finance)  
**Web Site:** [pgm.unl.edu](http://pgm.unl.edu)

- For students who wish to be educated in all aspects of the golf industry and become PGA members.
- One of 20 accredited PGA Golf Management University Programs in the country.
- Classroom instruction, a player development program taught by PGA Pros, and structured internship experiences provide a basic background in managing golf facilities and related organizations, business and personnel management, restaurant and hospitality management, recreation, and golf instruction methods.
- PGA Golf Management Student Club conducts many tournaments each semester.
- Graduates are eligible for PGA Class "A" membership.

**ADMISSION**

Additional requirements for entrance to the PGA Golf Management Program

- Proof of playing ability equivalent to 12 handicap or better.
- Letter of acceptance from UNL PGA Golf Management Office (no separate application required).

**MAJOR REQUIREMENTS****Core Requirements**

<b>Hours</b>	
<b>College Integrative Courses</b>	6
AGRI 103 Intro to Agricultural & Natural Resource Systems	3
PGAM 489 Professional Golf Management Integration	3
<b>Mathematics and Statistics (beyond college algebra) (ACE 3)</b>	5
Select from: MATH 102, MATH 104, MATH 106 and STAT 218.	
<b>Communications</b>	9
Written Communication (ACE 1)	3

<i>Select from: ENGL 150, ENGL 151, ENGL 254; JGEN 120, JGEN 200, JGEN 300</i>	
Oral Communication (ACE 2)	3
<i>Select from: COMM 109, COMM 209, COMM 286</i>	
Leadership (ACE 2)	3
ALEC 102 Interpersonal Skills for Leadership	
<b>Natural Sciences</b>	<b>10-11</b>
AGRO 131 Plant Science (ACE 4)	3
CHEM 105 Chemistry in Context I or CHEM 109 General Chemistry I (ACE 4)	4
CASNR Approved Life Sciences (select one from):	3-4
BIOS 101 & BIOS 101L General Biology & Lab (4 hrs)	
BIOS 109 General Botany (4 hrs)	
ENTO 115 Insect Biology (3 hrs) (preferred)	
<b>Economics, Humanities and Social Sciences</b>	<b>18</b>
ECON 211 and ECON 212 (ACE 6)	6
ACE Courses	9
<i>Select one course each from ACE outcomes 5, 7, and 9.</i>	
<i>Select one elective in this area</i>	3

## Specific Major Requirements

<b>Hours</b>	
<b>Additional Plant Sciences</b>	<b>7</b>
AGRO 153 Soil Resources	4
PGAM 227 Introductory Turfgrass Management or PGAM 327 Turfgrass Science & Management	3
<b>Food Service Management</b>	<b>9</b>
HRTM 374 Guest Services Management	3
HRTM 373 Catering	3
HRTM 474 Food & Beverage Management	3
<b>Business</b>	<b>17-19</b>
ACCT 201 & ACCT 202 Introductory Accounting I & II (6 cr) or ACCT 306 Survey of Accounting (4 cr)	4-6
BSAD 150 Business Computer Applications	1
FINA 361 Finance	3
MNGT 320 Principles of Management	3
MNGT 361 Personnel/Human Resource Management	3
MRKT 341 Marketing	3
<b>PGAM Courses</b>	<b>17</b>
PGAM 101 Intro to Professional Golf Management	3
PGAM 112 PGM Professional Development: First Year	1
PGAM 201 Professional Golf Management Program: Level 1	3
PGAM 212 PGM Professional Development: Second Year	1
PGAM 213 Professional Development: Analysis of the Swing	1
PGAM 295 Professional Golf Management Extended Internship	0
PGAM 301 Professional Golf Management Program: Level 2	3
PGAM 312 PGM Professional Development: Third Year	1
PGAM 313 Professional Development: Merchandising	1
PGAM 401 Professional Golf Management Program: Level 3	3
<b>Other</b>	<b>3</b>
ATHC 279 Coaching Effectiveness	3
<b>Specialization electives .12</b>	
<i>Select a minimum of 12 hours from the following:</i>	
ALEC 202 Leadership in Small Groups & Teams (3 cr)	
ALEC 302 Dynamics of Effective Leadership in Organizations (3 cr)	
ALEC 410 Environmental Leadership (3 cr)	
AGRO 366 Soil Nutrient Relationships (3 cr)	
BLAW 372 Business Law I (3 cr)	
ENTO 303 Horticultural Insects (3 cr)	
HORT 200 Landscape & Environmental Appreciation (3 cr)	
HORT 212 Landscape Plants I (3 cr)	
HORT 452 Irrigation Systems Management (3 cr)	
MNGT 331 Operations & Supply Chain Management (3 cr)	
MNGT 350 Intro to Management Information Systems (3 cr)	
MNGT 421 Entrepreneurship & Venture Management (3 cr)	
MRKT 345 Market Research (3 cr)	
MRKT 347 Marketing Communication Strategy (3 cr)	
MRKT 425 Retailing Management (3 cr)	
MRKT 428 Sports Marketing (3 cr)	
MRKT 442 Marketing Management (3 cr)	
MRKT 443 Consumer Behavior: Marketing Aspects (3 cr)	
NRES 208 Applied Climate Sciences (3 cr)	
NUTR 372 Food Safety & Sanitation (3 cr)	
NUTR 470 Cost Control for Foodservice (2 cr)	
NUTR 471 Vines, Wines & You (3 cr)	
PGAM 227 Introductory Turfgrass Management (if not taken above) (3 cr)	
PGAM 327 Turfgrass Science & Management (if not taken above) (3 cr)	
PGAM 328 Turfgrass Equipment (1 cr)	
PGAM 427 Critical Thinking in Turfgrass Management (3 cr)	
PHYS 151 Elements of Physics (4 cr)	
PLPT 369 Introductory Plant Pathology (3 cr)	
<b>Free Electives</b>	<b>9-12</b>



Total Credit Hours 125

## ADDITIONAL MAJOR REQUIREMENTS

### GPA Requirements (related to the major)

Students are expected to maintain a 2.5 grade point average, which is required for the College of Business Administration courses.

### Internship Credit Rules (related to the major)

Complete 16 months of internships in at least three different settings, the first of which must be at a golf course.

## OTHER:

- Participate in Playing Ability Test once in first year and twice each succeeding year until the PAT is passed.
- Complete Level 3 of the PGA Golf Management program.

## COLLEGE REQUIREMENTS

### College Admission

#### College Admission

Requirements for admission into the College of Agricultural Sciences and Natural Resources (CASNR) are consistent with general University admission requirements (one unit equals one high school year): 4 units of English, 4 units of mathematics, 3 units of natural sciences, 3 units of social studies, and 2 units of foreign language. Students must also meet performance requirements (ACT composite of 20 or higher OR combined SAT score of 950 or higher OR rank in the top one-half of graduating class; transfer students must have a 2.0 (on a 4.0 scale) cumulative grade point average and 2.0 on most recent term of attendance.

#### Admission Deficiencies/Removal of Deficiencies

Students who are admitted to CASNR with core course deficiencies must remove these deficiencies within the first 30 credit hours at UNL, or within the first calendar year at UNL, whichever takes longer, excluding foreign languages. Students have up to 60 credit hours to remove foreign language deficiencies. College-level course work taken to remove deficiencies may be used to meet degree requirements in CASNR.

Deficiencies in the required entrance subjects can be removed by completion of specified courses in the University or by correspondence.

The Office of Admissions, Alexander Building (east entrance), City Campus, provides information to new students on how deficiencies can be removed.

### College Degree Requirements

#### College General Education Requirements (those separate or related to ACE)

##### Hours

**College Integrative Course** 3  
AGRI 103/NRES 103 Intro to Agricultural & Natural Resource Systems 3

**Mathematics and Statistics (beyond college algebra)** 5  
 Select from: MATH 102, MATH 104, MATH 106, MATH 203, and STAT 218.

**NOTE:** Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. If MATH 103 is taken, only 2 cr hrs can be counted toward this requirement. Students must take MATH 203 prior to STAT 218 to receive UNL credit for both MATH 203 and STAT 218. Students who transfer STAT 218 credit to UNL will not receive UNL credit for MATH 203.

**Communications** 6  
 Written Communication 3

Select from: ENGL 150, ENGL 151, ENGL 254; JGEN 120, JGEN 200

Communication and Interpersonal Skills electives

Select from: ENGL 101, ENGL 150, ENGL 151, ENGL 252, ENGL 253, ENGL 254; ALEC 102; JGEN 120, JGEN 200, JGEN 300; COMM 109, COMM 209, COMM 212, COMM 286 3

**Natural Sciences** 8-9

Select two from the following three areas/courses:

CASNR Approved Life Sciences (4 cr)

AGRO 131 & AGRO 132 Plant Science & Lab  
 BIOS 101 & BIOS 101L General Biology & Lab  
 BIOS 102 Cell Structure & Function  
 BIOS 103 Organismic Biology  
 BIOS 109 General Botany  
 BIOS 112 Intro to Zoology  
 ENTO 115 Insect Biology & ENTO 116 Insect Identification  
 FDST 131 & FDST 131L The Science of Food & Lab  
 FORS 120 & FORS 120L Intro to Forensic Science & Lab  
 CHEM 105 Chemistry in Context I or CHEM 109 General Chemistry I (4 cr)  
 Select one from: (4-5 cr)  
 PHYS 141 Elementary General Physics (5 cr)  
 PHYS 151 Elements of Physics (4 cr)  
 PHYS 211 General Physics (4 cr)  
 MSYM 109 Physical Principles in Agriculture (4 cr)

<b>Economics, Humanities and Social Sciences</b>	<b>18</b>
ECON 211 or ECON 212 or AECN 141	3
ACE Courses	12
Select one course each from ACE outcomes 5, 7, 8, and 9.	3
Select one elective in this area	3
<b>Degree Program Requirements and Electives</b>	<b>85</b>
<b>Including Capstone Course</b>	<b>3</b>
<b>Minimum Credit Hours Required for Graduation</b>	<b>125</b>

#### Foreign Languages/Language Requirement

Two units of a foreign language are required

#### Minimum Hours Required for Graduation

The College grants the bachelor of science degree in programs associated with agricultural sciences and natural resources. Students working toward a degree must earn at least 125 semester hours of credit. A minimum cumulative grade point average of C (2.0 on a 4.0 scale) must be maintained throughout the course of studies and is required for graduation.

#### Grade Rules

##### Removal of C-, D and F Grades

Only the most recent letter grade received in a given course will be used in computing a student's cumulative grade point average if the student has completed the course more than once and previously received a grade or grades below C in that course.

The previous grade (or grades) will not be used in computation of the cumulative grade point average, but it will remain a part of the academic record and will appear on any transcript.

A student can remove from his/her cumulative average a course grade of C-, D+, D, D- or F if the student repeats the same course at the University of Nebraska and receives a grade other than P (pass), I (incomplete), N (no pass), W (withdrew), or NR (no report). If a course is no longer being offered, it is not eligible for the revised grade point average computation process.

For complete procedures and regulations, see the Schedule of Classes and the Summer Sessions Bulletin.

#### Pass/No Pass Limits

Students in CASNR may take any course offered on a Pass/No Pass basis within the 24-hour limitation established by the Faculty Senate. However, a department may specify that the Pass/No Pass status of its courses be limited to non-majors, or may choose to offer some courses for letter grades only.

#### GPA Requirements

A minimum cumulative grade point average of C (2.0 on a 4.0 scale) must be maintained throughout the course of studies and is required for graduation.

#### Transfer Credit Rules

Not more than 95 semester hours of credit from a four-year institution or another UNL college, can be applied toward programs in CASNR. A maximum of 66 hours may be transferred from a two-year college. Half of the credit needed for graduation can be earned through non-UNL courses, but such credit does not count toward residence; no more than 6 hours can be counted among the last 36 credit hours earned.

CASNR accepts no more than 10 semester hours of grades below C transferred from colleges outside the University of Nebraska system. Grades below C can only be applied to free electives.

Applicants must have a minimum cumulative grade point average of C (2.0 on a 4.0 scale) and at least a C average in the last semester of college enrollment at the student's originating institution.

#### Residency

At least 30 of the last 36 hours of credit in all but excepted programs must be registered for and completed in residence in the UNL or at least 90 hours total must be registered for and completed in residence at UNL.

### Extended Education and Independent Study Rules

There are many opportunities to earn college credit through the University of Nebraska-Lincoln Office of Extended Education and Outreach. Some of these credits may be applicable not only as elective credits, but also toward the fulfillment of the College's education requirements. Half of the credit needed for graduation can be earned through non-resident courses, but such credit does not count toward residency.

#### For further information, contact:

Office of Extended Education and Outreach  
University of Nebraska-Lincoln  
900 N 21st Street  
Lincoln, NE 68588-8307  
402-472-2175  
<http://extended.unl.edu/>

Students wishing to take part in independent studies must obtain permission; complete and sign a contract form; and furnish copies of the contract to the instructor, adviser, departmental office, and the Dean's Office. The contract should be completed before registration. Forms are available in 103 Agricultural Hall.

Independent study projects include research, literature review or extension of course work under supervision and evaluation of a departmental faculty member.

Students may only count 12 hours of independent study toward their degrees and no more than 6 hours can be counted during their last 36 hours earned, excluding senior thesis, internships, and courses taught under an independent study number.

### Other College Degree Requirements

#### Capstone Course Requirement

A capstone course is required for each CASNR degree program. A capstone course is defined as a course in which students are required to integrate diverse bodies of knowledge to solve a problem or formulate a policy of societal importance.

### ACE Requirements

All students must fulfill the Achievement Centered Education (ACE) requirements. Information about the ACE program may be viewed at [ace.unl.edu](http://ace.unl.edu). The minimum requirements of CASNR reflect the common core of courses that apply to students pursuing degrees in the college. Students should work with an adviser to satisfy ACE outcomes 1, 2, 3, 4, 6 and 10 with the college requirements.

### Bulletin Rule

Students must follow the undergraduate bulletin in effect when they enroll in the College of Agricultural Sciences and Natural Resources or any subsequent bulletin published while the student is enrolled in the College, provided the bulletin they follow is no more than 10 years old at the time of graduation. Students must, however, meet the requirements from one bulletin only.

UNIVERSITY OF NEBRASKA-LINCOLN

**N** UNDERGRADUATE BULLETIN 2011-2012

AGRICULTURAL SCIENCES &amp; NATURAL RESOURCES

**PGA Golf Management****Quick points**

<b>College:</b>	Agricultural Sciences & Natural Resources
<b>Degree Offered:</b>	Bachelor of Science in PGA Golf Management
<b>Hours Required:</b>	125
<b>Minimum Cumulative GPA:</b>	2.0 for graduation
<b>Minor Available:</b>	No
<b>Chief Adviser:</b>	Alan Baquet

**DESCRIPTION**

**Director:** Alan Baquet, PGA Golf Management Program, 203 Keim Hall  
**Faculty Advisory Committee:** Heng-Moss (entomology); Schnepf (nutrition and health sciences); Zorn (finance)  
**Web Site:** [pgm.unl.edu](http://pgm.unl.edu)

- For students who wish to be educated in all aspects of the golf industry and become PGA members.
- One of 20 accredited PGA Golf Management University Programs in the country.
- Classroom instruction, a player development program taught by PGA Pros, and structured internship experiences provide a basic background in managing golf facilities and related organizations, business and personnel management, restaurant and hospitality management, recreation, and golf instruction methods.
- PGA Golf Management Student Club conducts many tournaments each semester.
- Graduates are eligible for PGA Class "A" membership.
- Additional PGA Golf Management fees apply.

**ADMISSION**

Additional requirements for entrance to the PGA Golf Management Program

- Proof of playing ability equivalent to 12 handicap or better.
- Letter of acceptance from UNL PGA Golf Management Office (no separate application required).
- Fall semester entrance only.

**MAJOR REQUIREMENTS****Core Requirements**

<b>Hours</b>	
<b>College Integrative Courses</b>	<b>6</b>
AGRI 103 Intro to Agricultural & Natural Resource Systems	3
PGAM 489 Professional Golf Management Integration	3
<b>Mathematics and Statistics (beyond college algebra) (ACE 3)</b>	<b>5</b>
<i>Select from: MATH 102, MATH 104, MATH 106 and STAT 218.</i>	

<b>Communications</b>	<b>9</b>
Written Communication (ACE 1)	3
Select from: ENGL 150, ENGL 151, ENGL 254; JGEN 120, JGEN 200, JGEN 300	
Oral Communication (ACE 2)	3
Select from: COMM 109, COMM 209, COMM 286	
Leadership (ACE 2)	3
ALEC 102 Interpersonal Skills for Leadership	
<b>Natural Sciences</b>	<b>10-11</b>
AGRO 131 Plant Science (ACE 4)	3
CHEM 105 Chemistry in Context I or CHEM 109 General Chemistry I (ACE 4)	4
CASNR Approved Life Sciences (select one from):	3-4
BIOS 101 & BIOS 101L General Biology & Lab (4 hrs)	
BIOS 109 General Botany (4 hrs)	
ENTO 115 Insect Biology (3 hrs) (preferred)	
<b>Economics, Humanities and Social Sciences</b>	<b>18</b>
ECON 211 and ECON 212 (ACE 6)	6
ACE Courses	9
Select one course each from ACE outcomes 5, 7, and 9.	
Select one elective in this area	3

## Specific Major Requirements

<b>Hours</b>	
<b>Additional Plant Sciences</b>	<b>7</b>
AGRO 153 Soil Resources	4
PGAM 227 Introductory Turfgrass Management or PGAM 327 Turfgrass Science & Management	3
<b>Food Service Management</b>	<b>9</b>
HRTM 374 Guest Services Management	3
HRTM 373 Catering	3
HRTM 474 Food & Beverage Management	3
<b>Business</b>	<b>17-19</b>
ACCT 201 & ACCT 202 Introductory Accounting I & II (6 cr) or ACCT 306 Survey of Accounting (4 cr)	4-6
BSAD 150 Business Computer Applications	1
FINA 361 Finance	3
MNGT 320 Principles of Management	3
MNGT 361 Personnel/Human Resource Management	3
MRKT 341 Marketing	3
<b>PGAM Courses</b>	<b>17</b>
PGAM 101 Intro to Professional Golf Management	3
PGAM 112 PGM Professional Development: First Year	1
PGAM 201 Professional Golf Management Program: Level 1	3
PGAM 212 PGM Professional Development: Second Year	1
PGAM 213 Professional Development: Analysis of the Swing	1
PGAM 295 Professional Golf Management Extended Internship	0
PGAM 301 Professional Golf Management Program: Level 2	3
PGAM 312 PGM Professional Development: Third Year	1
PGAM 313 Professional Development: Merchandising	1
PGAM 401 Professional Golf Management Program: Level 3	3
<b>Other</b>	<b>3</b>
ATHC 279 Coaching Effectiveness	3
<b>Specialization electives .12</b>	
Select a minimum of 12 hours from the following:	
ALEC 202 Leadership in Small Groups & Teams (3 cr)	
ALEC 302 Dynamics of Effective Leadership in Organizations (3 cr)	
ALEC 410 Environmental Leadership (3 cr)	
AGRO 366 Soil Nutrient Relationships (3 cr)	
BLAW 372 Business Law I (3 cr)	
ENTO 302 Horticultural Insects (3 cr)	
HORT 200 Landscape & Environmental Appreciation (3 cr)	
HORT 212 Landscape Plants I (3 cr)	
HORT 452 Irrigation Systems Management (3 cr)	
MNGT 331 Operations & Supply Chain Management (3 cr)	
MNGT 350 Intro to Management Information Systems (3 cr)	
MNGT 421 Entrepreneurship & Venture Management (3 cr)	
MRKT 345 Market Research (3 cr)	
MRKT 347 Marketing Communication Strategy (3 cr)	
MRKT 425 Retailing Management (3 cr)	
MRKT 428 Sports Marketing (3 cr)	
MRKT 442 Marketing Management (3 cr)	
MRKT 443 Consumer Behavior: Marketing Aspects (3 cr)	
NRES 208 Applied Climate Sciences (3 cr)	
NUTR 372 Food Safety & Sanitation (3 cr)	
NUTR 470 Cost Control for Foodservice (2 cr)	
NUTR 471 Vines, Wines & You (3 cr)	
PGAM 227 Introductory Turfgrass Management (if not taken above) (3 cr)	
PGAM 327 Turfgrass Science & Management (if not taken above) (3 cr)	
PGAM 328 Turfgrass Equipment (1 cr)	
PGAM 427 Critical Thinking in Turfgrass Management (3 cr)	
PHYS 151 Elements of Physics (4 cr)	
PLPT 369 Introductory Plant Pathology (3 cr)	



Free Electives	9-12
Total Credit Hours	125

## ADDITIONAL MAJOR REQUIREMENTS

### GPA Requirements (related to the major)

Students are expected to maintain a 2.5 grade point average, which is required for the College of Business Administration courses.

### Internship Credit Rules (related to the major)

Complete 16 months of internships in at least three different settings, the first of which must be at a golf course.

## OTHER:

- Participate in Playing Ability Test once in first year and twice each succeeding year until the PAT is passed.
- Complete Level 3 of the PGA Golf Management program.

## COLLEGE REQUIREMENTS

### College Admission

Requirements for admission into the College of Agricultural Sciences and Natural Resources (CASNR) are consistent with general University admission requirements (one unit equals one high school year): 4 units of English, 4 units of mathematics, 3 units of natural sciences, 3 units of social studies, and 2 units of foreign language. Students must also meet performance requirements (ACT composite of 20 or higher OR combined SAT score of 950 or higher OR rank in the top one-half of graduating class; transfer students must have a 2.0 (on a 4.0 scale) cumulative grade point average and 2.0 on most recent term of attendance.

### Admission Deficiencies/Removal of Deficiencies

Students who are admitted to CASNR with core course deficiencies must remove these deficiencies within the first 30 credit hours at UNL, or within the first calendar year at UNL, whichever takes longer, excluding foreign languages. Students have up to 60 credit hours to remove foreign language deficiencies. College-level course work taken to remove deficiencies may be used to meet degree requirements in CASNR.

Deficiencies in the required entrance subjects can be removed by completion of specified courses in the University or by correspondence. The Office of Admissions, Alexander Building (east entrance), City Campus, provides information to new students on how deficiencies can be removed.

## College Degree Requirements

### College General Education Requirements (those separate or related to ACE)

#### Hours

<b>College Integrative Course</b>	3
AGRI 103/NRES 103 Intro to Agricultural & Natural Resource Systems	3
<b>Mathematics and Statistics (beyond college algebra)</b>	5
Select from: MATH 102, MATH 104, MATH 106, MATH 203, and STAT 218. <i>NOTE: Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. If MATH 103 is taken, only 2 cr hrs can be counted toward this requirement. Students must take MATH 203 prior to STAT 218 to receive UNL credit for both MATH 203 and STAT 218. Students who transfer STAT 218 credit to UNL will not receive UNL credit for MATH 203.</i>	
<b>Communications</b>	6
Written Communication—	3
Select from: ENGL 150, ENGL 151, ENGL 254; JGEN 120, JGEN 200	
Communication and Interpersonal Skills electives—	3
Select from: ENGL 101, ENGL 150, ENGL 151, ENGL 252, ENGL 253, ENGL 254; ALEC 102; JGEN 120, JGEN 200, JGEN 300; COMM 109, COMM 209, COMM 212, COMM 286	
<b>Natural Sciences</b>	8-9
Select two from the following three areas/courses: CASNR Approved Life Sciences (4 cr) AGRO 131 & AGRO 132 Plant Science & Lab	

BIOS 101 & BIOS 101L General Biology & Lab  
 BIOS 102 Cell Structure & Function  
 BIOS 103 Organismic Biology  
 BIOS 109 General Botany  
 BIOS 112 Intro to Zoology  
 ENTO 115 Insect Biology & ENTO 116 Insect Identification  
 FDST 131 & FDST 131L The Science of Food & Lab  
 FORS 120 & FORS 120L Intro to Forensic Science & Lab  
 CHEM 105 Chemistry in Context I or CHEM 109 General Chemistry I (4 cr)  
 Select one from: (4-5 cr)  
 PHYS 141 Elementary General Physics (5 cr)  
 PHYS 151 Elements of Physics (4 cr)  
 PHYS 211 General Physics (4 cr)  
 MSYM 109 Physical Principles in Agriculture (4 cr)

<b>Economics, Humanities and Social Sciences</b>	<b>18</b>
ECON 211 or ECON 212 or AECN 141	3
ACE Courses	12
Select one course each from ACE outcomes 5, 7, 8, and 9.	
Select one elective in this area	3
<b>Degree Program Requirements and Electives</b>	<b>85</b>
<b>Including Capstone Course</b>	<b>3</b>
<b>Minimum Credit Hours Required for Graduation</b>	<b>125</b>

### Foreign Languages/Language Requirement

Two units of a foreign language are required

### Minimum Hours Required for Graduation

The College grants the bachelor of science degree in programs associated with agricultural sciences and natural resources. Students working toward a degree must earn at least 125 semester hours of credit. A minimum cumulative grade point average of C (2.0 on a 4.0 scale) must be maintained throughout the course of studies and is required for graduation.

### Grade Rules

#### Removal of C-, D and F Grades

Only the most recent letter grade received in a given course will be used in computing a student's cumulative grade point average if the student has completed the course more than once and previously received a grade or grades below C in that course.

The previous grade (or grades) will not be used in computation of the cumulative grade point average, but it will remain a part of the academic record and will appear on any transcript.

A student can remove from his/her cumulative average a course grade of C-, D+, D, D- or F if the student repeats the same course at the University of Nebraska and receives a grade other than P (pass), I (incomplete), N (no pass), W (withdrew), or NR (no report). If a course is no longer being offered, it is not eligible for the revised grade point average computation process.

For complete procedures and regulations, see the Schedule of Classes and the Summer Sessions Bulletin.

### Pass/No Pass Limits

Students in CASNR may take any course offered on a Pass/No Pass basis within the 24-hour limitation established by the Faculty Senate. However, a department may specify that the Pass/No Pass status of its courses be limited to non-majors, or may choose to offer some courses for letter grades only.

### GPA Requirements

A minimum cumulative grade point average of C (2.0 on a 4.0 scale) must be maintained throughout the course of studies and is required for graduation.

### Transfer Credit Rules

To be considered for admission, a transfer student, Nebraska resident or nonresident, must have an accumulated average of C (2.0 on a 4.0 scale) and a minimum C average in the last semester of attendance at another college. Transfer students who have completed less than 12 credit hours of college study must submit either ACT or SAT scores.

Ordinarily, credits earned at an accredited college are accepted by the University. The College, however, will evaluate all hours submitted on an application for transfer and reserves the right to accept or reject any of them. Sixty-six is the maximum number of hours UNL will accept on transfer from a two-year college. Ninety-five is the maximum number of hours UNL will accept from a four-year college. Transfer credit in the major must be approved by the major adviser on a Request for Substitution Form to meet specific course requirements, group requirements, or course level requirements in the major. At least 9 hours in the major field, including the capstone course, must be completed at UNL regardless of the number of hours transferred.

The College will accept no more than 10 semester hours of C-, D+, D and D- grades from other schools. The C-, D+, D and D- grades can only be applied to free electives. This policy does not apply to the transfer of grades from UNO or UNK to UNL. All D grades may be transferred from UNO or UNK, but they are not applicable to a major or minor.

### Residency

Students must complete at least 30 of the total hours for their degree using UNL credits. Credit earned during study abroad may be used toward the residency requirement if students register through UNL and participate in prior-approved study abroad programs. UNL open enrollment and summer independent study courses count toward residence.

#### Extended Education and Independent Study Rules

There are many opportunities to earn college credit through the University of Nebraska-Lincoln Office of Extended Education and Outreach. Some of these credits may be applicable not only as elective credits, but also toward the fulfillment of the College's education requirements. Half of the credit needed for graduation can be earned through non-resident courses, but such credit does not count toward residency.

#### For further information, contact:

Office of Extended Education and Outreach  
University of Nebraska-Lincoln  
900 N 21st Street  
Lincoln, NE 68588-8307  
402-472-2175  
<http://extended.unl.edu/>

Students wishing to take part in independent studies must obtain permission; complete and sign a contract form; and furnish copies of the contract to the instructor, adviser, departmental office, and the Dean's Office. The contract should be completed before registration. Forms are available in 103 Agricultural Hall.

Independent study projects include research, literature review or extension of course work under supervision and evaluation of a departmental faculty member.

Students may only count 12 hours of independent study toward their degrees and no more than 6 hours can be counted during their last 36 hours earned, excluding senior thesis, internships, and courses taught under an independent study number.

#### Other College Degree Requirements

##### Capstone Course Requirement

A capstone course is required for each CASNR degree program. A capstone course is defined as a course in which students are required to integrate diverse bodies of knowledge to solve a problem or formulate a policy of societal importance.

#### ACE Requirements

All students must fulfill the Achievement Centered Education (ACE) requirements. Information about the ACE program may be viewed at [ace.unl.edu](http://ace.unl.edu). The minimum requirements of CASNR reflect the common core of courses that apply to students pursuing degrees in the college. Students should work with an adviser to satisfy ACE outcomes 1, 2, 3, 4, 6 and 10 with the college requirements.

#### Bulletin Rule

Students must follow the undergraduate bulletin in effect when they enroll in the College of Agricultural Sciences and Natural Resources or any subsequent bulletin published while the student is enrolled in the College, provided the bulletin they follow is no more than 10 years old at the time of graduation. Students must, however, meet the requirements from one bulletin only.

UNIVERSITY OF NEBRASKA-LINCOLN

**N** UNDERGRADUATE BULLETIN 2012-2013

AGRICULTURAL SCIENCES &amp; NATURAL RESOURCES

**PGA Golf Management**

## Quick points

College:	Agricultural Sciences & Natural Resources
Degree Offered:	Bachelor of Science in PGA Golf Management
Hours Required:	120
Minimum Cumulative GPA:	2.0 for graduation
Minor Available:	No
Chief Adviser:	Alan Baquet

**DESCRIPTION**

**Director:** Alan Baquet, PGA Golf Management Program, 203 Keim Hall  
**Faculty Advisory Committee:** Heng-Moss (entomology); Karels (finance); Reicher (agronomy and horticulture); Schnepf (nutrition and health sciences)  
**Website:** <http://pgm.unl.edu>

- For students who wish to be educated in all aspects of the golf industry and become PGA members.
- One of 20 accredited PGA Golf Management University Programs in the country.
- Classroom instruction, a player development program taught by PGA Pros, and structured internship experiences provide a basic background in managing golf facilities and related organizations, business and personnel management, restaurant and hospitality management, recreation, and golf instruction methods.
- PGA Golf Management Student Club conducts many tournaments each semester.
- Graduates are eligible for PGA Class "A" membership.
- Additional PGA Golf Management fees apply.

**ADMISSION**

Additional requirements for entrance to the PGA Golf Management Program

- Proof of playing ability equivalent to 12 handicap or better.
- Letter of acceptance from UNL PGA Golf Management Office (no separate application required).
- Fall semester entrance only.

**MAJOR REQUIREMENTS**

## Core Requirements

<b>Hours</b>	
<b>College Integrative Courses</b>	<b>6</b>
AGRI 103 Intro to Agricultural & Natural Resource Systems	3
PGAM 489 Professional Golf Management Integration	3
<b>Mathematics and Statistics (beyond college algebra) (ACE 3)</b>	<b>5</b>
Select from: MATH 102, MATH 104, MATH 106 and STAT 218.	

<b>Communications</b>	<b>9</b>
Written Communication (ACE 1)	3
Select from: ENGL 150, ENGL 151, ENGL 254; JGEN 120, JGEN 200, JGEN 300	
Oral Communication (ACE 2)	3
Select from: COMM 109, COMM 209, COMM 286	
Leadership (ACE 2)	3
ALEC 102 Interpersonal Skills for Leadership	
<b>Natural Sciences</b>	<b>10-11</b>
AGRO 131 Plant Science (ACE 4)	3
CHEM 105 Chemistry in Context I or CHEM 109 General Chemistry I (ACE 4)	3
CASNR Approved Life Sciences (select one from):	3-4
BIOS 101 & BIOS 101L General Biology & Lab (4 hrs)	
BIOS 109 General Botany (4 hrs)	
ENTO 115 Insect Biology (3 hrs) (preferred)	
<b>Economics, Humanities and Social Sciences</b>	<b>15</b>
ECON 211 and ECON 212 (ACE 5 & 8)	6
ACE Courses	9
Select one course each from ACE outcomes 5, 7, and 9.	

## Specific Major Requirements

<b>Hours</b>	
<b>Additional Plant Sciences</b>	<b>7</b>
AGRO 153 Soil Resources	4
PGAM 227 Introductory Turfgrass Management or PGAM 327 Turfgrass Science & Management	3
<b>Food Service Management</b>	<b>9</b>
HRTM 374 Guest Services Management	3
HRTM 373 Catering	3
HRTM 474 Food & Beverage Management	3
<b>Business</b>	<b>17-19</b>
ACCT 201 & ACCT 202 Introductory Accounting I & II (6 cr) or ACCT 306 Survey of Accounting (4 cr)	4-6
BSAD 150 Business Computer Applications	1
FINA 361 Finances	3
MNGT 320 Principles of Management	3
MNGT 361 Personnel/Human Resource Management	3
MRKT 341 Marketing	3
<b>PGAM Courses</b>	<b>15</b>
PGAM 101 Intro to Professional Golf Management	3
PGAM 112 PGM Professional Development: First Year	1
PGAM 201 Professional Golf Management Program: Level 1	3
PGAM 212 PGM Professional Development: Second Year	1
PGAM 295 Professional Golf Management Extended Internship	0
PGAM 301 Professional Golf Management Program: Level 2	3
PGAM 312 PGM Professional Development: Third Year	1
PGAM 401 Professional Golf Management Program: Level 3	3
<b>Other</b>	<b>3</b>
ATHC 279 Coaching Effectiveness	3
<b>Specialization electives</b>	<b>12</b>
Select a minimum of 12 hours from the following:	
ALEC 202 Leadership Development in Small Groups & Teams (3 cr)	
ALEC 302 Dynamics of Effective Leadership in Organizations (3 cr)	
ALEC 410 Environmental Leadership (3 cr)	
AGRO 366 Soil Nutrient Relationships (3 cr)	
BLAW 372 Business Law I (3 cr)	
HORT 200 Landscape & Environmental Appreciation (3 cr)	
HORT 212 Landscape Plants I (3 cr)	
HORT 452 Irrigation Systems Management (3 cr)	
MNGT 331 Operations & Supply Chain Management (3 cr)	
MNGT 350 Intro to Management Information Systems (3 cr)	
MNGT 421 Entrepreneurship & Venture Management (3 cr)	
MRKT 345 Market Research (3 cr)	
MRKT 347 Marketing Communication Strategy (3 cr)	
MRKT 425 Retailing Management (3 cr)	
MRKT 428 Sports Marketing (3 cr)	
MRKT 442 Marketing Management (3 cr)	
MRKT 443 Consumer Behavior: Marketing Aspects (3 cr)	
NRES 208 Applied Climate Sciences (3 cr)	
NUTR 372 Food Safety & Sanitation (3 cr)	
NUTR 470 Cost Control for Foodservice (2 cr)	
NUTR 471 Vines, Wines & You (3 cr)	
PGAM 227 Introductory Turfgrass Management (if not taken above) (3 cr)	
PGAM 327 Turfgrass Science & Management (if not taken above) (3 cr)	
PGAM 328 Turfgrass Equipment (1 cr)	
PGAM 427 Turfgrass Systems Management (3 cr)	
PHYS 151 Elements of Physics (4 cr)	
PLPT 369 Introductory Plant Pathology (3 cr)	
<b>Free Electives</b>	<b>9-12</b>
<b>Total Credit Hours</b>	<b>120</b>



## ADDITIONAL MAJOR REQUIREMENTS

### GPA Requirements (related to the major)

Students are expected to maintain a 2.5 grade point average, which is required for the College of Business Administration courses.

### Internship Credit Rules (related to the major)

Complete 16 months of internships in at least three different settings, the first of which must be at a golf course.

## OTHER:

- Participate in Playing Ability Test once in first year and twice each succeeding year until the PAT is passed.
- Complete Level 3 of the PGA Golf Management program.

## COLLEGE REQUIREMENTS

### College Admission

Requirements for admission into the College of Agricultural Sciences and Natural Resources (CASNR) are consistent with general University admission requirements (one unit equals one high school year): 4 units of English, 4 units of mathematics, 3 units of natural sciences, 3 units of social studies, and 2 units of foreign language. Students must also meet performance requirements (ACT composite of 20 or higher OR combined SAT score of 950 or higher OR rank in the top one-half of graduating class; transfer students must have a 2.0 (on a 4.0 scale) cumulative grade point average and 2.0 on most recent term of attendance.

### Admission Deficiencies/Removal of Deficiencies

Students who are admitted to CASNR with core course deficiencies must remove these deficiencies within the first 30 credit hours at UNL, or within the first calendar year at UNL, whichever takes longer, excluding foreign languages. Students have up to 60 credit hours to remove foreign language deficiencies. College-level course work taken to remove deficiencies may be used to meet degree requirements in CASNR.

Deficiencies in the required entrance subjects can be removed by completion of specified courses in the University or by correspondence. The Office of Admissions, Alexander Building (east entrance), City Campus, provides information to new students on how deficiencies can be removed.

### College Degree Requirements

#### Curriculum Requirements

The curriculum requirements of the College consist of three areas: ACE (Achievement-Centered Education); College of Agricultural Sciences and Natural Resources Core; and Degree Program requirements and electives. All three areas of the College Curriculum Requirements are incorporated within the description of the Major/Degree Program sections of the bulletin. The individual major/degree program listings of classes insures that a student will meet the curriculum requirements of the College.

#### Foreign Languages/Language Requirement

Two units of a foreign language are required. This requirement is usually met with two years of high school language.

#### Minimum Hours Required for Graduation

The College grants the bachelor of science degree in programs associated with agricultural sciences and natural resources. Students working toward a degree must earn at least 120 semester hours of credit. A minimum cumulative grade point average of C (2.0 on a 4.0 scale) must be maintained throughout the course of studies and is required for graduation.

#### Grade Rules

#### Removal of C-, D and F Grades

Only the most recent letter grade received in a given course will be used in computing a student's cumulative grade point average if the student has

completed the course more than once and previously received a grade or grades below C in that course.

The previous grade (or grades) will not be used in computation of the cumulative grade point average, but it will remain a part of the academic record and will appear on any transcript.

A student can remove from his/her cumulative average a course grade of C-, D+, D, D- or F if the student repeats the same course at the University of Nebraska and receives a grade other than P (pass), I (incomplete), N (no pass), W (withdrew), or NR (no report). If a course is no longer being offered, it is not eligible for the revised grade point average computation process.

For complete procedures and regulations, see the *Schedule of Classes*.

#### Pass/No Pass Limits

Students in CASNR may take any course offered on a Pass/No Pass basis within the 24-hour limitation established by the Faculty Senate. However, a department may specify that the Pass/No Pass status of its courses be limited to non-majors, or may choose to offer some courses for letter grades only.

#### GPA Requirements

A minimum cumulative grade point average of C (2.0 on a 4.0 scale) must be maintained throughout the course of studies and is required for graduation.

#### Transfer Credit Rules

To be considered for admission, a transfer student, Nebraska resident or nonresident, must have an accumulated average of C (2.0 on a 4.0 scale) and a minimum C average in the last semester of attendance at another college. Transfer students who have completed less than 12 credit hours of college study must submit either ACT or SAT scores.

Ordinarily, credits earned at an accredited college are accepted by the University. The College, however, will evaluate all hours submitted on an application for transfer and reserves the right to accept or reject any of them. Sixty is the maximum number of hours UNL will accept on transfer from a two-year college. Ninety is the maximum number of hours UNL will accept from a four-year college. Transfer credit in the degree program must be approved by the degree program adviser on a Request for Substitution Form to meet specific course requirements, group requirements, or course level requirements in the major. At least 9 hours in the major field, including the capstone course, must be completed at UNL regardless of the number of hours transferred.

The College will accept no more than 10 semester hours of C-, D+, D and D- grades from other schools. The C-, D+, D and D- grades can only be applied to free electives. This policy does not apply to the transfer of grades from UNO or UNK to UNL. All D grades may be transferred from UNO or UNK, but they are not applicable to a major or minor.

#### Joint Academic Transfer Programs

The College of Agricultural Sciences and Natural Resources has agreements with many institutions to support joint academic programs. The transfer programs include dual degree programs and cooperative degree programs. Dual degree programs offer students the opportunity to receive a degree from a participating institution and also to complete requirements for a bachelor of science degree in CASNR. Cooperative programs result in a single degree from either UNL or the cooperating institution.

#### Dual Degree Programs

##### A to B Programs

The A to B Program, a joint academic program offered by the CASNR and participating community colleges, allows students to complete the first two years of a degree program at the participating community college and continue their education and study in a degree program leading toward a bachelor of science degree.

The A to B Program provides a basic knowledge plus specialized course work. Students transfer into CASNR with junior standing.

Depending on the community college, students enrolled in the A to B Program may complete the requirements for an associate of science or associate of applied science degree at the community college, transfer to UNL, and work toward a bachelor of science degree.

Participating community colleges include:

- Central Community College
- Metropolitan Community College
- Mid-Plains Community College
- Northeast Community College
- Southeast Community College

##### 3+2 Programs

Two specialized degree programs in **animal science** and **veterinary science** are offered jointly with an accredited college or school of veterinary medicine. These two programs permit CASNR animal science or veterinary science students to receive a bachelor of science degree from UNL with a degree in animal science or veterinary science after successfully completing two years of the professional curriculum in veterinary medicine at an accredited veterinary school. Students who successfully complete the 3+2 Program, must complete the "Application for Degree" form and provide transcripts to the Credentials Clerk, Office of the University Registrar, 107 Canfield Administration Building, UNL. Students should discuss these degree programs with their academic adviser.

#### Cooperative Degree Programs

Academic credit from UNL and a cooperating institution is applied towards a four-year degree from either UNL (UNL degree-granting program) or the cooperating institution (non UNL degree-granting program). All have approved programs of study.

#### UNL Degree-Granting Programs

A UNL degree-granting program is designed to provide students the opportunity to complete a two-year program of study at one of the four-year institutions listed below, transfer to CASNR and complete the requirements for a bachelor of science degree.

**Chadron State College.** Chadron State College offers a 2+2 program leading to a grassland ecology and management degree program.

**University of Nebraska at Kearney.** Transfer programs are available for students pursuing degree programs leading to a bachelor of science degree.

**University of Nebraska at Omaha.** The University of Nebraska at Omaha (UNO) cooperates with CASNR in providing four-semester pre-agricultural sciences, pre-natural resources, pre-food science and technology, and pre-horticulture transfer programs.

A student enrolled in these programs may transfer all satisfactorily completed academic credits identified in the suggested program of study, and enter CASNR to study toward a degree program leading to a bachelor of science degree. The total program would require a minimum of four years or eight semesters (16 credit hours/semester or 120 credit hours).

UNL CASNR faculty teach horticulture and food science and technology courses at UNO to assist an urban population in better understanding the food processing, horticulture, and landscape horticulture industries.

For more information, contact Associate Professor Steven Rodie, Pre-Horticulture Program, University of Nebraska at Omaha, 402-554-3752; and/or Billie Lefholtz, Dean's Office, CASNR, University of Nebraska-Lincoln, 800-472-8800, ext. 2541.

### Non UNL Degree-Granting Programs

The CASNR cooperates with other institutions to provide course work that is applied towards a degree at the cooperating institution. Pre-professional programs offered by CASNR allow students to complete the first two or three years of a degree program at UNL prior to transferring and completing a degree at the cooperating institution.

**Chadron State College-Range Science.** The 3+1 Program in range science allows Chadron State College students to pursue a range science degree through Chadron State College. Students complete three years of course work at Chadron State College and one year of specialized range science course work (32 credit hours) at CASNR.

**Dordt College (Iowa) - Agricultural Education: Teaching Option.** This program allows students to pursue an Agricultural Education Teaching Option degree leading toward a bachelor of science in agricultural education. Students at Dordt College will complete 90 credit hours in the Agricultural Education: Teaching Option Transfer Program.

### Residency

Students must complete at least 30 of the total hours for their degree using UNL credits. Credit earned during education abroad may be used toward the residency requirement if students register through UNL and participate in prior-approved education abroad programs. UNL open enrollment and summer independent study courses count toward residence.

### Online and Distance Education

There are many opportunities to earn college credit through the University of Nebraska-Lincoln Office of Online and Distance Education. Some of these credits may be applicable not only as elective credits, but also toward the fulfillment of the College's education requirements. Credits earned through the UNL Online and Distance Education program may count toward residency. However, certain offerings may not be counted toward scholarship requirements or academic recognition criteria.

### For further information, contact:

Office of Online and Distance Education  
University of Nebraska-Lincoln  
2100 Vine Street  
Lincoln, NE 68588-8307  
402-472-2175  
<http://online.unl.edu/>

### Independent Study Rules

Students wishing to take part in independent studies must obtain permission; complete and sign a contract form; and furnish copies of the contract to the instructor, adviser, departmental office, and the Dean's Office. The contract should be completed before registration. Forms are available in 103 Agricultural Hall or online at the CASNR website.

Independent study projects include research, literature review or extension of course work under supervision and evaluation of a departmental faculty member.

Students may only count 12 hours of independent study toward their degrees and no more than 6 hours can be counted during their last 36 hours earned, excluding senior thesis, internships, and courses taught under an independent study number.

### Other College Degree Requirements

#### Capstone Course Requirement

A capstone course is required for each CASNR degree program. A capstone course is defined as a course in which students are required to integrate diverse bodies of knowledge to solve a problem or formulate a policy of societal importance.

### ACE Requirements

All students must fulfill the Achievement Centered Education (ACE) requirements. Information about the ACE program may be viewed at [ace.unl.edu](http://ace.unl.edu). The minimum requirements of CASNR reflect the common core of courses that apply to students pursuing degrees in the college. Students should work with an adviser to satisfy ACE outcomes 1, 2, 3, 4, 6 and 10 with the college requirements.

PGA Golf Management | Undergraduate Bulletin | University of Nebra... <https://bulletin.unl.edu/undergraduate/2012/major/PGA+Golf+Mana...>

### Bulletin Rule

Students must fulfill the requirements stated in the bulletin for the academic year in which they are first admitted to UNL or when they were first admitted to a Joint Academic Transfer Program. In consultation with advisers, a student may choose to follow a subsequent bulletin for any academic year in which they are admitted to and enrolled as a degree-seeking student at UNL in the College of Agricultural Sciences and Natural Resources. Students must complete all degree requirements from a single bulletin year. The bulletin which a student follows for degree requirements may not be more than 10 years old at the time of graduation.

UNIVERSITY OF NEBRASKA-LINCOLN

**N** UNDERGRADUATE BULLETIN 2013-2014

AGRICULTURAL SCIENCES &amp; NATURAL RESOURCES

**PGA Golf Management**

## Quick points

College:	Agricultural Sciences & Natural Resources
Degree Offered:	Bachelor of Science in PGA Golf Management
Hours Required:	120
Minimum Cumulative GPA:	2.0 for graduation
Minor Available:	No
Chief Adviser:	Alan Baquet

**DESCRIPTION**

**Director:** Alan Baquet, PGA Golf Management Program, 203 Keim Hall  
**Faculty Advisory Committee:** Heng-Moss (entomology); Karels (finance); Reicher (agronomy and horticulture); Schnepf (nutrition and health sciences)  
**Website:** <http://pgm.unl.edu>

- For students who wish to be educated in all aspects of the golf industry and become PGA members.
- One of 19 accredited PGA Golf Management University Programs in the country.
- Classroom instruction, a player development program taught by PGA professionals, and structured internship experiences provide a basic background in managing golf facilities and related organizations, business and personnel management, restaurant and hospitality management, recreation, and golf instruction methods.
- PGA Golf Management Student Club conducts many tournaments each semester.
- Graduates are eligible for PGA Class "A" membership.
- Additional PGA Golf Management fees apply.

**ADMISSION**

Additional requirements for entrance to the PGA Golf Management Program

- Proof of playing ability equivalent to 12 handicap or better.
- Letter of acceptance from UNL PGA Golf Management Office (no separate application required).
- Fall semester entrance only.

**MAJOR REQUIREMENTS**

## Core Requirements

Hours	
College Integrative Courses	3
AGRI 103 Introduction to Agricultural & Natural Resource Systems	3
Mathematics and Statistics ( <i>beyond college algebra</i> ) (ACE 3)	5-6
Select from: MATH 102, MATH 104, MATH 106 and STAT 218.	
Communications	9



Written Communication (ACE 1)_____	3
Select from: ENGL 150, ENGL 151, ENGL 254; JGEN 120, JGEN 200, JGEN 300	
Oral Communication (ACE 2)_____	3
Select from: COMM 109, COMM 209, COMM 286	
Leadership (ACE 2)_____	3
ALEC 102 Interpersonal Skills for Leadership	
<b>Natural Sciences</b> _____	<b>10-11</b>
AGRO 131 Plant Science (ACE 4)_____	3
CHEM 105 Chemistry in Context I or CHEM 109 General Chemistry I (ACE 4)_____	4
CASN Approved Life Sciences (select one from):_____	3-4
BIOS 101 & BIOS 101L General Biology & Lab (4 hrs)	
BIOS 109 General Botany (4 hrs)	
ENTO 115 Insect Biology (3 hrs) (preferred)	
<b>Economics, Humanities and Social Sciences</b> _____	<b>12</b>
ACE Courses_____	12
Select one course each from ACE outcomes 5, 7, 8, and 9.	

### Specific Major Requirements

<b>Hours</b>	
<b>Additional Plant Sciences</b> _____	<b>8</b>
AGRO 153 Soil Resources_____	4
PGAM 227 Introductory Turfgrass Management & PGAM 229 Turfgrass Management Lab_____	4
<b>Food Service Management</b> _____	<b>9</b>
HRTM 374 Guest Services Management_____	3
HRTM 373 Catering_____	3
HRTM 474 Food & Beverage Management_____	3
<b>Business (constitutes Business Minor)</b> _____	<b>18</b>
ACCT 200 Survey of Accounting_____	3
BLAW 300 Business, Government & Society_____	3
ECON 200 Survey of Economic Principles (ACE 6)_____	3
FINA 300 Survey of Finance Principles_____	3
MNGT 300 Survey of Management_____	3
MRKT 300 Survey of Marketing_____	3
<i>NOTE: The above block of six courses is for non-business majors. If a student switches to the College of Business Administration, these courses will not satisfy requirements for a business major or minor.</i>	
<b>PGAM Courses</b> _____	<b>24</b>
PGAM 101 Introduction to Professional Golf Management_____	3
PGAM 112 PGM Professional Development: First Year_____	3
PGAM 201 Professional Golf Management Program: Level 1_____	3
PGAM 212 PGM Professional Development: Second Year_____	3
PGAM 295 Professional Golf Management Extended Internship_____	0
PGAM 301 Professional Golf Management Program: Level 2_____	3
PGAM 312 PGM Professional Development: Third Year_____	3
PGAM 401 Professional Golf Management Program: Level 3_____	3
PGAM 489 Professional Golf Management Integration (ACE 10)_____	3
<b>Free Electives</b> _____	<b>20-22</b>
<b>Total Credit Hours</b> _____	<b>120</b>

### ADDITIONAL MAJOR REQUIREMENTS

#### GPA Requirements (related to the major)

Students are expected to maintain a 2.5 grade point average, which is required for the College of Business Administration courses.

#### Internship Credit Rules (related to the major)

Complete 16 months of internships in at least three different settings, the first of which must be at a golf course.

#### OTHER:

- Participate in Playing Ability Test once in first year and twice each succeeding year until the PAT is passed.
- Complete Level 3 of the PGA Golf Management program.

## COLLEGE REQUIREMENTS

### College Admission

Requirements for admission into the College of Agricultural Sciences and Natural Resources (CASNR) are consistent with general University admission requirements (one unit equals one high school year): 4 units of English, 4 units of mathematics, 3 units of natural sciences, 3 units of social studies, and 2 units of foreign language. Students must also meet performance requirements (ACT composite of 30 or higher OR combined SAT score of 950 or higher OR rank in the top one-half of graduating class; transfer students must have a 2.0 (on a 4.0 scale) cumulative grade point average and 2.0 on most recent term of attendance).

### Admission Deficiencies/Removal of Deficiencies

Students who are admitted to CASNR with core course deficiencies must remove these deficiencies within the first 30 credit hours at UNL, or within the first calendar year at UNL, whichever takes longer, excluding foreign languages. Students have up to 60 credit hours to remove foreign language deficiencies. College-level course work taken to remove deficiencies may be used to meet degree requirements in CASNR.

Deficiencies in the required entrance subjects can be removed by completion of specified courses in the University or by correspondence.

The Office of Admissions, Alexander Building (east entrance), City Campus, provides information to new students on how deficiencies can be removed.

### College Degree Requirements

#### Curriculum Requirements

The curriculum requirements of the College consist of three areas: ACE (Achievement-Centered Education); College of Agricultural Sciences and Natural Resources Core; and Degree Program requirements and electives. All three areas of the College Curriculum Requirements are incorporated within the description of the Major/Degree Program sections of the bulletin. The individual major/degree program listings of classes insures that a student will meet the minimum curriculum requirements of the College.

#### Foreign Languages/Language Requirement

Two units of a foreign language are required. This requirement is usually met with two years of high school language.

#### Minimum Hours Required for Graduation

The College grants the bachelors degree in programs associated with agricultural sciences, natural resources and related programs. Students working toward a degree must earn at least 120 semester hours of credit. A minimum cumulative grade point average of C (2.0 on a 4.0 scale) must be maintained throughout the course of studies and is required for graduation.

#### Grade Rules

##### Removal of C-, D and F Grades

Only the most recent letter grade received in a given course will be used in computing a student's cumulative grade point average if the student has completed the course more than once and previously received a grade or grades below C in that course.

The previous grade (or grades) will not be used in computation of the cumulative grade point average, but it will remain a part of the academic record and will appear on any transcript.

A student can remove from his/her cumulative average a course grade of C-, D+, D, D- or F if the student repeats the same course at the University of Nebraska and receives a grade other than P (pass), I (incomplete), N (no pass), W (withdrew), or NR (no report). If a course is no longer being offered, it is not eligible for the revised grade point average computation process.

For complete procedures and regulations, see the Office of the University Registrar website at <http://www.unl.edu/regrec/course-repeats>.

#### Pass/No Pass Limits

Students in CASNR may take any course offered on a Pass/No Pass basis within the 24-hour limitation established by the Faculty Senate. However, a department may specify that the Pass/No Pass status of its courses be limited to non-majors, or may choose to offer some courses for letter grades only.

#### GPA Requirements

A minimum cumulative grade point average of C (2.0 on a 4.0 scale) must be maintained throughout the course of studies and is required for graduation.

#### Transfer Credit Rules

To be considered for admission, a transfer student, Nebraska resident or nonresident, must have an accumulated average of C (2.0 on a 4.0 scale) and a minimum C average in the last semester of attendance at another college. Transfer students who have completed less than 12 credit hours of college study must submit either ACT or SAT scores.

Ordinarily, credits earned at an accredited college are accepted by the University. The College, however, will evaluate all hours submitted on an application for transfer and reserves the right to accept or reject any of them. Sixty is the maximum number of hours UNL will accept on transfer from a

two-year college. Ninety is the maximum number of hours UNL will accept from a four-year college. Transfer credit in the degree program must be approved by the degree program adviser on a Request for Substitution Form to meet specific course requirements, group requirements, or course level requirements in the major. At least 9 hours in the major field, including the capstone course, must be completed at UNL regardless of the number of hours transferred.

The College will accept no more than 10 semester hours of C-, D+, D and D- grades from other schools. The C-, D+, D and D- grades can only be applied to free electives. This policy does not apply to the transfer of grades from UNO or UNK to UNL.

#### Joint Academic Transfer Programs

The College of Agricultural Sciences and Natural Resources has agreements with many institutions to support joint academic programs. The transfer programs include dual degree programs and cooperative degree programs. Dual degree programs offer students the opportunity to receive a degree from a participating institution and also to complete requirements for a bachelor of science degree in CASNR. Cooperative programs result in a single degree from either UNL or the cooperating institution.

#### Dual Degree Programs

##### A to B Programs

The A to B Program, a joint academic program offered by the CASNR and participating community colleges, allows students to complete the first two years of a degree program at the participating community college and continue their education and study in a degree program leading toward a bachelor of science degree.

The A to B Program provides a basic knowledge plus specialized course work. Students transfer into CASNR with junior standing. Depending on the community college, students enrolled in the A to B Program may complete the requirements for an associate of science at the community college, transfer to UNL, and work toward a bachelor of science degree.

Participating community colleges include:

- Central Community College
- Metropolitan Community College
- Mid-Plains Community College
- Northeast Community College
- Southeast Community College
- Western Nebraska Community College

##### 3+2 Programs

Two specialized degree programs in **animal science** and **veterinary science** are offered jointly with an accredited college or school of veterinary medicine. These two programs permit CASNR animal science or veterinary science students to receive a bachelor of science degree from UNL with a degree in animal science or veterinary science after successfully completing two years of the professional curriculum in veterinary medicine at an accredited veterinary school. Students who successfully complete the 3+2 Program, must complete the "Application for Degree" form and provide transcripts to the Credentials Clerk, Office of the University Registrar, 107 Canfield Administration Building, UNL. Students should discuss these degree programs with their academic adviser.

#### Cooperative Degree Programs

Academic credit from UNL and a cooperating institution is applied towards a four-year degree from either UNL (UNL degree-granting program) or the cooperating institution (non UNL degree-granting program). All have approved programs of study.

#### UNL Degree-Granting Programs

A UNL degree-granting program is designed to provide students the opportunity to complete a two-year program of study at one of the four-year institutions listed below, transfer to CASNR and complete the requirements for a bachelor of science degree.

**Chadron State College.** Chadron State College offers a 2+2 program leading to a grassland ecology and management degree program.

**University of Nebraska at Kearney.** Transfer programs are available for students pursuing degree programs leading to a bachelor of science degree.

**University of Nebraska at Omaha.** The University of Nebraska at Omaha (UNO) cooperates with CASNR in providing four-semester pre-agricultural sciences, pre-natural resources, pre-food science and technology, and pre-horticulture transfer programs.

A student enrolled in these programs may transfer all satisfactorily completed academic credits identified in the suggested program of study, and enter CASNR to study toward a degree program leading to a bachelor of science degree. The total program would require a minimum of four years or eight semesters (16 credit hours/semester or 120 credit hours).

UNL CASNR faculty teach horticulture and food science and technology courses at UNO to assist an urban population in better understanding the food processing, horticulture, and landscape horticulture industries.

For more information, contact Associate Professor Steven Rodie, Pre-Horticulture Program, University of Nebraska at Omaha, 402-554-3752; and/or Billie Lefholtz, Dean's Office, CASNR, University of Nebraska-Lincoln, 800-472-8800, ext. 2541.

#### Non UNL Degree-Granting Programs

The CASNR cooperates with other institutions to provide course work that is applied towards a degree at the cooperating institution. Pre-professional programs offered by CASNR allow students to complete the first two or three years of a degree program at UNL prior to transferring and completing a degree at the cooperating institution.

**Chadron State College-Range Science.** The 3+1 Program in range science allows Chadron State College students to pursue a range science degree through Chadron State College. Students complete three years of course work at Chadron State College and one year of specialized range science course work (32 credit hours) at CASNR.

**Dordt College (Iowa) – Agricultural Education: Teaching Option.** This program allows students to pursue an Agricultural Education Teaching Option

degree leading toward a bachelor of science in agricultural education. Students at Dordt College will complete 90 credit hours in the Agricultural Education: Teaching Option Transfer Program.

#### Residency

Students must complete at least 30 of the total hours for their degree using UNL credits. Credit earned during education abroad may be used toward the residency requirement if students register through UNL and participate in prior-approved education abroad programs. UNL open enrollment and summer independent study courses count toward residence.

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#### For further information, contact:

Office of Online and Distance Education  
University of Nebraska-Lincoln  
2100 Vine Street  
Lincoln, NE 68588-8307  
402-472-2175  
<http://online.unl.edu/>

#### Independent Study Rules

Students wishing to take part in independent studies must obtain permission; complete and sign a contract form; and furnish copies of the contract to the instructor, adviser, departmental office, and the Dean's Office. The contract should be completed before registration. Forms are available in 103 Agricultural Hall or online at the CASNR website.

Independent study projects include research, literature review or extension of course work under supervision and evaluation of a departmental faculty member.

Students may only count 12 hours of independent study toward their degrees and no more than 6 hours can be counted during their last 36 hours earned, excluding senior thesis, internships, and courses taught under an independent study number.

#### Other College Degree Requirements

#### Capstone Course Requirement

A capstone course is required for each CASNR degree program. A capstone course is defined as a course in which students are required to integrate diverse bodies of knowledge to solve a problem or formulate a policy of societal importance.

#### ACE Requirements

All students must fulfill the Achievement Centered Education (ACE) requirements. Information about the ACE program may be viewed at [www.ace.unl.edu](http://www.ace.unl.edu). The minimum requirements of CASNR reflect the common core of courses that apply to students pursuing degrees in the college. Students should work with an adviser to satisfy ACE outcomes 1, 2, 3, 4, 6 and 10 with the college requirements.

#### Bulletin Rule

Students must fulfill the requirements stated in the bulletin for the academic year in which they are first admitted to UNL or when they were first admitted to a Joint Academic Transfer Program. In consultation with advisers, a student may choose to follow a subsequent bulletin for any academic year in which they are admitted to and enrolled as a degree-seeking student at UNL in the College of Agricultural Sciences and Natural Resources. Students must complete all degree requirements from a single bulletin year. The bulletin which a student follows for degree requirements may not be more than 10 years old at the time of graduation.

UNIVERSITY OF NEBRASKA-LINCOLN

**N** UNDERGRADUATE BULLETIN 2014-2015

AGRICULTURAL SCIENCES &amp; NATURAL RESOURCES

**PGA Golf Management**

## Quick points

College:	Agricultural Sciences & Natural Resources
Degree Offered:	Bachelor of Science in PGA Golf Management
Hours Required:	120
Minimum Cumulative GPA:	2.0 for graduation
Minor Available:	No
Chief Adviser:	Alan Baquet

**DESCRIPTION**

**Director:** Alan Baquet, PGA Golf Management Program, 203 Keim Hall  
**Faculty Advisory Committee:** Heng-Moss (entomology); Karels (finance); Reicher (agronomy and horticulture); Schnepf (nutrition and health sciences)  
**Website:** <http://pgm.unl.edu>

- For students who wish to be educated in all aspects of the golf industry and become PGA members.
- One of 19 accredited PGA Golf Management University Programs in the country.
- Classroom instruction, a player development program taught by PGA professionals, and structured internship experiences provide a basic background in managing golf facilities and related organizations, business and personnel management, restaurant and hospitality management, recreation, and golf instruction methods.
- PGA Golf Management Student Club conducts many tournaments each semester.
- Graduates are eligible for PGA Class A membership.
- Additional PGA Golf Management fees apply.

**MAJOR REQUIREMENTS**

## Core Requirements

<b>College Integrative Courses</b>	<b>3</b>
AGRI 103 Introduction to Agricultural & Natural Resource Systems	3
<b>Mathematics and Statistics (beyond college algebra) (ACE 3)</b>	<b>5-6</b>
Select from: MATH 102, MATH 104, MATH 106 and STAT 218.	
<b>Communications</b>	<b>9</b>
Written Communication (ACE 1)	3
Select from: ENGL 150, ENGL 151, ENGL 254; JGEN 120, JGEN 200, JGEN 300	
Oral Communication (ACE 2)	3
Select from: COMM 109, COMM 209, COMM 286	
Leadership (ACE 2)	3
ALEC 102 Interpersonal Skills for Leadership	
<b>Natural Sciences</b>	<b>10-11</b>
AGRO 131 Plant Science (ACE 4)	3
CHEM 105 Chemistry in Context I or CHEM 109 General Chemistry I (ACE 4)	4
CASNR Approved Life Sciences (select one from):	3-4
BIOS 101 & BIOS 101L General Biology & Lab (4 hrs)	
BIOS 109 General Botany (4 hrs)	
ENTO 115 Insect Biology (BIOS 115) (3 hrs) (preferred)	
<b>Economics, Humanities and Social Sciences</b>	<b>9</b>
ACE Courses	9
Select one course each from ACE outcomes 5, 7, and 9.	



## Specific Major Requirements

<b>Additional Plant Sciences</b>	<b>8</b>
AGRO 153 Soil Resources (HORT 153/SOIL 153)	4
PGAM 227 Introductory Turfgrass Management (AGRO 227/HORT 227/TLMT 227) & PGAM 229 Turfgrass Management Lab for PGAM Students	4
<b>Food Service Management</b>	<b>9</b>
HRTM 374 Guest Services Management	3
HRTM 373 Catering	3
HRTM 474 Food & Beverage Management	3
<b>Business (constitutes Business Minor)</b>	<b>18</b>
ACCT 200 Accounting for Business Decisions	3
BLAW 300 Business, Government & Society (ACE 8)	3
ECON 200 Economic Essentials & Issues (ACE 6)	3
FINA 300 Financial Decision Making	3
MNGT 300 Management Essentials for Contemporary Organizations	3
MRKT 300 Contemporary Marketing	3
<b>NOTE: The above block of six courses is for non-business majors. If a student switches to the College of Business Administration, these courses will not satisfy requirements for a business major or minor.</b>	
<b>PGAM Courses</b>	<b>24</b>
PGAM 101 Introduction to PGA Golf Management 2.0	3
PGAM 112 PGA Golf Management 2.0 Level 1-A	3
PGAM 201 PGA Golf Management 2.0 Level 1-B	3
PGAM 212 PGA Golf Management 2.0 Level 2-A	3
PGAM 295 Professional Golf Management Extended Internship	0
PGAM 301 PGA Golf Management 2.0 Level 2-B	3
PGAM 312 PGA Golf Management 2.0 Level 3-A	3
PGAM 401 PGA Golf Management 2.0 Level 3-B	3
PGAM 489 PGA Golf Management Integration (ACE 10)	3
<b>Free Electives</b>	<b>23-25</b>
<b>Total Credit Hours</b>	<b>120</b>

## ADDITIONAL MAJOR REQUIREMENTS

### GPA Requirements (related to the major)

Students are expected to maintain a 2.5 grade point average, which is required for the College of Business Administration courses.

### Internship Credit Rules (related to the major)

Complete 16 months of internships in at least three different settings, following the eligible employment guidelines outlined in the PGA Constitution.

### Other Requirements

- Participate in Playing Ability Test once in first year and twice each succeeding year until the PAT is passed.
- Complete Level 3 of the PGA Golf Management program.

## COLLEGE REQUIREMENTS

### College Admission

Requirements for admission into the College of Agricultural Sciences and Natural Resources (CASNR) are consistent with general University admission requirements (one unit equals one high school year): 4 units of English, 4 units of mathematics, 3 units of natural sciences, 3 units of social studies, and 2 units of foreign language. Students must also meet performance requirements (ACT composite of 20 or higher OR combined SAT score of 950 or higher OR rank in the top one-half of graduating class; transfer students must have a 2.0 (on a 4.0 scale) cumulative grade point average and 2.0 on most recent term of attendance.

### Admission Deficiencies/Removal of Deficiencies

Students who are admitted to CASNR with core course deficiencies must remove these deficiencies within the first 30 credit hours at UNL, or within the first calendar year at UNL, whichever takes longer, excluding foreign languages. Students have up to 60 credit hours to remove foreign language deficiencies. College-level course work taken to remove deficiencies may be used to meet degree requirements in CASNR.

Deficiencies in the required entrance subjects can be removed by completion of specified courses in the University or by correspondence.

The Office of Admissions, Alexander Building (east entrance), City Campus, provides information to new students on how deficiencies can be removed.

## College Degree Requirements

### Curriculum Requirements

The curriculum requirements of the College consist of three areas: ACE (Achievement-Centered Education); College of Agricultural Sciences and Natural Resources Core; and Degree Program requirements and electives. All three areas of the College Curriculum Requirements are incorporated within the description of the Major/Degree Program sections of the bulletin. The individual major/degree program listings of classes insures that a student will meet the minimum curriculum requirements of the College.

### Foreign Languages/Language Requirement

Two units of a foreign language are required. This requirement is usually met with two years of high school language.

### Minimum Hours Required for Graduation

The College grants the bachelors degree in programs associated with agricultural sciences, natural resources and related programs. Students working toward a degree must earn at least 120 semester hours of credit. A minimum cumulative grade point average of C (2.0 on a 4.0 scale) must be maintained throughout the course of studies and is required for graduation.

### Grade Rules

#### Removal of C-, D and F Grades

Only the most recent letter grade received in a given course will be used in computing a student's cumulative grade point average if the student has completed the course more than once and previously received a grade or grades below C in that course.

The previous grade (or grades) will not be used in computation of the cumulative grade point average, but it will remain a part of the academic record and will appear on any transcript.

A student can remove from his/her cumulative average a course grade of C-, D+, D, D- or F if the student repeats the same course at the University of Nebraska and receives a grade other than P (pass), I (incomplete), N (no pass), W (withdrew), or NR (no report). If a course is no longer being offered, it is not eligible for the revised grade point average computation process.

For complete procedures and regulations, see the Office of the University Registrar website at <http://www.unl.edu/regrec/course-repeats>.

### Pass/No Pass Limits

Students in CASNR may take any course offered on a Pass/No Pass basis within the 24-hour limitation established by the Faculty Senate. However, a department may specify that the Pass/No Pass status of its courses be limited to non-majors, or may choose to offer some courses for letter grades only.

### GPA Requirements

A minimum cumulative grade point average of C (2.0 on a 4.0 scale) must be maintained throughout the course of studies and is required for graduation.

### Transfer Credit Rules

To be considered for admission, a transfer student, Nebraska resident or nonresident, must have an accumulated average of C (2.0 on a 4.0 scale) and a minimum C average in the last semester of attendance at another college. Transfer students who have completed less than 12 credit hours of college study must submit either ACT or SAT scores.

Ordinarily, credits earned at an accredited college are accepted by the University. The College, however, will evaluate all hours submitted on an application for transfer and reserves the right to accept or reject any of them. Sixty is the maximum number of hours UNL will accept on transfer from a two-year college. Ninety is the maximum number of hours UNL will accept from a four-year college. Transfer credit in the degree program must be approved by the degree program adviser on a Request for Substitution Form to meet specific course requirements, group requirements, or course level requirements in the major. At least 9 hours in the major field, including the capstone course, must be completed at UNL regardless of the number of hours transferred.

The College will accept no more than 10 semester hours of C-, D+, D and D- grades from other schools. The C-, D+, D and D- grades can only be applied to free electives. This policy does not apply to the transfer of grades from UNO or UNK to UNL.

### Joint Academic Transfer Programs

The College of Agricultural Sciences and Natural Resources has agreements with many institutions to support joint academic programs. The transfer programs include dual degree programs and cooperative degree programs. Dual degree programs offer students the opportunity to receive a degree from a participating institution and also to complete requirements for a bachelor of science degree in CASNR. Cooperative programs result in a single degree from either UNL or the cooperating institution.

### Dual Degree Programs

#### A to B Programs

The A to B Program, a joint academic program offered by the CASNR and participating community colleges, allows students to complete the first two years of a degree program at the participating community college and continue their education and study in a degree program leading toward a bachelor of science degree.

The A to B Program provides a basic knowledge plus specialized course work. Students transfer into CASNR with junior standing. Depending on the community college, students enrolled in the A to B Program may complete the requirements for an associate of science at the community college, transfer to UNL, and work toward a bachelor of science degree.

Participating community colleges include:

- Central Community College
- Metropolitan Community College
- Mid-Plains Community College
- Northeast Community College
- Southeast Community College
- Western Nebraska Community College

### 3+2 Programs

Two specialized degree programs in **animal science** and **veterinary science** are offered jointly with an accredited college or school of veterinary medicine. These two programs permit CASNR animal science or veterinary science students to receive a bachelor of science degree from UNL with a degree in animal science or veterinary science after successfully completing two years of the professional curriculum in veterinary medicine at an accredited veterinary school. Students who successfully complete the 3+2 Program, must complete the "Application for Degree" form and provide transcripts to the Credentials Clerk, Office of the University Registrar, 107 Canfield Administration Building, UNL. Students should discuss these degree programs with their academic adviser.

### Cooperative Degree Programs

Academic credit from UNL and a cooperating institution is applied towards a four-year degree from either UNL (UNL degree-granting program) or the cooperating institution (non UNL degree-granting program). All have approved programs of study.

### UNL Degree-Granting Programs

A UNL degree-granting program is designed to provide students the opportunity to complete a two-year program of study at one of the four-year institutions listed below, transfer to CASNR and complete the requirements for a bachelor of science degree.

**Chadron State College.** Chadron State College offers a 2+2 program leading to a grassland ecology and management degree program.

**University of Nebraska at Kearney.** Transfer programs are available for students pursuing degree programs leading to a bachelor of science degree.

**University of Nebraska at Omaha.** The University of Nebraska at Omaha (UNO) cooperates with CASNR in providing four-semester pre-agricultural sciences, pre-natural resources, pre-food science and technology, and pre-horticulture transfer programs.

A student enrolled in these programs may transfer all satisfactorily completed academic credits identified in the suggested program of study, and enter CASNR to study toward a degree program leading to a bachelor of science degree. The total program would require a minimum of four years or eight semesters (16 credit hours/semester or 120 credit hours).

UNL CASNR faculty teach horticulture and food science and technology courses at UNO to assist an urban population in better understanding the food processing, horticulture, and landscape horticulture industries.

For more information, contact Associate Professor Steven Rodie, Pre-Horticulture Program, University of Nebraska at Omaha, 402-554-3752; and/or the CASNR Dean's Office, 800-472-8800, ext. 2541.

### Non UNL Degree-Granting Programs

The CASNR cooperates with other institutions to provide course work that is applied towards a degree at the cooperating institution. Pre-professional programs offered by CASNR allow students to complete the first two or three years of a degree program at UNL prior to transferring and completing a degree at the cooperating institution.

**Chadron State College - Range Science.** The 3+1 Program in range science allows Chadron State College students to pursue a range science degree through Chadron State College. Students complete three years of course work at Chadron State College and one year of specialized range science course work (32 credit hours) at CASNR.

**Dordt College (Iowa) - Agricultural Education: Teaching Option.** This program allows students to pursue an Agricultural Education Teaching Option degree leading toward a bachelor of science in agricultural education. Students at Dordt College will complete 90 credit hours in the Agricultural Education: Teaching Option Transfer Program.

### Residency

Students must complete at least 30 of the total hours for their degree using UNL credits. Credit earned during education abroad may be used toward the residency requirement if students register through UNL and participate in prior-approved education abroad programs. UNL open enrollment and summer independent study courses count toward residence.

### Online and Distance Education

There are many opportunities to earn college credit through the University of Nebraska-Lincoln Office of Online and Distance Education. Some of these credits may be applicable not only as elective credits, but also toward the fulfillment of the College's education requirements. Credits earned through the UNL Online and Distance Education program may count toward residency. However, certain offerings may not be counted toward scholarship requirements or academic recognition criteria.

For further information, contact:

Office of Online and Distance Education  
University of Nebraska-Lincoln

2100 Vine Street  
Lincoln, NE 68588-8307  
402-472-2175  
<http://online.unl.edu/>

#### Independent Study Rules

Students wishing to take part in independent studies must obtain permission; complete and sign a contract form; and furnish copies of the contract to the instructor, adviser, departmental office, and the Dean's Office. The contract should be completed before registration. Forms are available in 103 Agricultural Hall or online at the CASNR website.

Independent study projects include research, literature review or extension of course work under supervision and evaluation of a departmental faculty member.

Students may only count 12 hours of independent study toward their degrees and no more than 6 hours can be counted during their last 36 hours earned, excluding senior thesis, internships, and courses taught under an independent study number.

#### Other College Degree Requirements

##### Capstone Course Requirement

A capstone course is required for each CASNR degree program. A capstone course is defined as a course in which students are required to integrate diverse bodies of knowledge to solve a problem or formulate a policy of societal importance.

#### ACE Requirements

All students must fulfill the Achievement Centered Education (ACE) requirements. Information about the ACE program may be viewed at [www.ace.unl.edu](http://www.ace.unl.edu).

The minimum requirements of CASNR reflect the common core of courses that apply to students pursuing degrees in the college. Students should work with an adviser to satisfy ACE outcomes 1, 2, 3, 4, 6 and 10 with the college requirements.

#### Bulletin Rule

Students must fulfill the requirements stated in the bulletin for the academic year in which they are first admitted to UNL or when they were first admitted to a Joint Academic Transfer Program. In consultation with advisers, a student may choose to follow a subsequent bulletin for any academic year in which they are admitted to and enrolled as a degree-seeking student at UNL in the College of Agricultural Sciences and Natural Resources. Students must complete all degree requirements from a single bulletin year. The bulletin which a student follows for degree requirements may not be more than 10 years old at the time of graduation.

UNIVERSITY OF NEBRASKA-LINCOLN

**N** UNDERGRADUATE BULLETIN 2015-2016

AGRICULTURAL SCIENCES &amp; NATURAL RESOURCES

**PGA Golf Management**

## Quick points

College:	Agricultural Sciences & Natural Resources
Degree Offered:	Bachelor of Science in PGA Golf Management
Hours Required:	120
Minimum Cumulative GPA:	2.0 for graduation
Minor Available:	No
Advisor:	Alan Baquet

**DESCRIPTION**

Director: Dann Husmann, PGA Golf Management Program, 203 Keim Hall  
 Website: <http://pgm.unl.edu>

**PGA Golf Management**

- For students who wish to be educated in all aspects of the golf industry and become PGA members.
- One of 18 accredited PGA Golf Management University Programs in the country.
- Classroom instruction, a player development program taught by PGA professionals, and structured internship experiences provide a basic background in managing golf facilities and related organizations, business and personnel management, restaurant and hospitality management, recreation, and golf instruction methods.
- PGA Golf Management Student Club conducts many tournaments each semester.
- Graduates are eligible for PGA Class A membership.
- Additional PGA Golf Management fees apply.

**MAJOR REQUIREMENTS****Core Requirements**

<b>College Integrative Courses</b>	<b>3</b>
AGRI 103 Introduction to Agricultural & Natural Resource Systems (NRES 103)	3
<b>Mathematics and Statistics (beyond college algebra) (ACE 3)</b>	<b>5-6</b>
Select from:	
MATH 106 Calculus I (5 cr)	
STAT 218 Introduction to Statistics (3 cr) and either MATH 102 Trigonometry (2 cr) or *MATH 103 College Algebra & Trigonometry (5 cr) or	
MATH 104 Applied Calculus (3 cr) or MATH 203 Contemporary Mathematics (3 cr) (ACE 3)	
* If MATH 103 is taken, only 2 credit hours can be counted toward this requirement.	
<b>Communications</b>	<b>9</b>
Written Communication (ACE 1)	3
Select from: ENGL 150, ENGL 151, ENGL 254, JGEN 120, JGEN 200, JGEN 300	
Oral Communication (ACE 2)	3
Select from: COMM 109, COMM 209, COMM 286	
Leadership (ACE 2)	3
ALEC 102 Interpersonal Skills for Leadership	
<b>Natural Sciences</b>	<b>10-11</b>



AGRO 131 Plant Science (ACE 4)	3
CHEM 105 Chemistry in Context I or CHEM 109 General Chemistry I (ACE 4)	4
CASNR Approved Life Sciences (select one from):	3-4
BIOS 101 & BIOS 101L General Biology & Lab (4 hrs)	
BIOS 109 General Botany (4 hrs)	
ENTO 115 Insect Biology (BIOS 115) (3 hrs) (preferred)	
<b>Economics, Humanities and Social Sciences</b>	<b>9</b>
ACE Courses	9
Select one course each from ACE outcomes 5, 7, and 9.	

## Specific Major Requirements

<b>Additional Plant Sciences</b>	<b>8</b>
AGRO 153 Soil Resources (HORT 153/SOIL 153)	4
PGAM 227 Introductory Turfgrass Management (AGRO 227/HORT 227/TLMT 227) & PGAM 229 Turfgrass Management Lab for PGAM Students	4
<b>Food Service Management</b>	<b>9</b>
HRTM 374 Guest Services Management	3
HRTM 373 Catering	3
HRTM 474 Food & Beverage Management	3
<b>Business (constitutes Business Minor)</b>	<b>18</b>
ACCT 200 Accounting for Business Decisions	3
BLAW 300 Business, Government & Society (ACE 8)	3
ECON 200 Economic Essentials & Issues (ACE 6)	3
FINA 300 Financial Decision Making	3
MNGT 300 Management Essentials for Contemporary Organizations	3
MRKT 300 Contemporary Marketing	3
<b>NOTE: The above block of six courses is for non-business majors. If a student switches to the College of Business Administration, these courses will not satisfy requirements for a business major or minor.</b>	
<b>PGAM Courses</b>	<b>24</b>
PGAM 101 Introduction to PGA Golf Management 2.0	3
PGAM 112 PGA Golf Management 2.0 Level 1-A	3
PGAM 201 PGA Golf Management 2.0 Level 1-B	3
PGAM 212 PGA Golf Management 2.0 Level 2-A	3
PGAM 295 Professional Golf Management Extended Internship	0
PGAM 301 PGA Golf Management 2.0 Level 2-B	3
PGAM 312 PGA Golf Management 2.0 Level 3-A	3
PGAM 401 PGA Golf Management 2.0 Level 3-B	3
PGAM 489 PGA Golf Management Integration (ACE 10)	3
<b>Free Electives</b>	<b>23-25</b>
<b>Total Credit Hours</b>	<b>120</b>

## ADDITIONAL MAJOR REQUIREMENTS

### GPA Requirements (related to the major)

Students are expected to maintain a 2.5 grade point average, which is required for the College of Business Administration courses.

### Internship Credit Rules (related to the major)

Complete 16 months of internships in at least three different settings, following the eligible employment guidelines outlined in the PGA Constitution.

### Other Requirements

- Participate in Playing Ability Test once in first year and twice each succeeding year until the PAT is passed.
- Complete Level 3 of the PGA Golf Management program.

## COLLEGE REQUIREMENTS

### College Admission

Requirements for admission into the College of Agricultural Sciences and Natural Resources (CASNR) are consistent with general University admission requirements (one unit equals one high school year): 4 units of English, 4 units of mathematics, 3 units of natural sciences, 3 units of social studies, and 2 units of foreign language. Students must also meet performance requirements (ACT composite of 20 or higher OR combined SAT score of 950 or higher OR

rank in the top one-half of graduating class; transfer students must have a 2.0 (on a 4.0 scale) cumulative grade point average and 2.0 on most recent term of attendance.

#### Admission Deficiencies/Removal of Deficiencies

Students who are admitted to CASNR with core course deficiencies must remove these deficiencies within the first 30 credit hours at UNL, or within the first calendar year at UNL, whichever takes longer, excluding foreign languages. Students have up to 60 credit hours to remove foreign language deficiencies. College-level course work taken to remove deficiencies may be used to meet degree requirements in CASNR.

Deficiencies in the required entrance subjects can be removed by completion of specified courses in the University or by correspondence. The Office of Admissions, Alexander Building (east entrance), City Campus, provides information to new students on how deficiencies can be removed.

### College Degree Requirements

#### Curriculum Requirements

The curriculum requirements of the College consist of three areas: ACE (Achievement-Centered Education); College of Agricultural Sciences and Natural Resources Core; and Degree Program requirements and electives. All three areas of the College Curriculum Requirements are incorporated within the description of the Major/Degree Program sections of the bulletin. The individual major/degree program listings of classes insures that a student will meet the minimum curriculum requirements of the College.

#### Foreign Languages/Language Requirement

Two units of a foreign language are required. This requirement is usually met with two years of high school language.

#### Minimum Hours Required for Graduation

The College grants the bachelors degree in programs associated with agricultural sciences, natural resources and related programs. Students working toward a degree must earn at least 120 semester hours of credit. A minimum cumulative grade point average of C (2.0 on a 4.0 scale) must be maintained throughout the course of studies and is required for graduation.

#### Grade Rules

##### Removal of C-, D and F Grades

Only the most recent letter grade received in a given course will be used in computing a student's cumulative grade point average if the student has completed the course more than once and previously received a grade or grades below C in that course.

The previous grade (or grades) will not be used in computation of the cumulative grade point average, but it will remain a part of the academic record and will appear on any transcript.

A student can remove from his/her cumulative average a course grade of C-, D+, D, D- or F if the student repeats the same course at the University of Nebraska and receives a grade other than P (pass), I (incomplete), N (no pass), W (withdrew), or NR (no report). If a course is no longer being offered, it is not eligible for the revised grade point average computation process.

For complete procedures and regulations, see the Office of the University Registrar website at <http://www.unl.edu/regrec/course-repeats>.

#### Pass/No Pass Limits

Students in CASNR may take any course offered on a Pass/No Pass basis within the 24-hour limitation established by the Faculty Senate. However, a department may specify that the Pass/No Pass status of its courses be limited to non-majors, or may choose to offer some courses for letter grades only.

#### GPA Requirements

A minimum cumulative grade point average of C (2.0 on a 4.0 scale) must be maintained throughout the course of studies and is required for graduation.

#### Transfer Credit Rules

To be considered for admission, a transfer student, Nebraska resident or nonresident, must have an accumulated average of C (2.0 on a 4.0 scale) and a minimum C average in the last semester of attendance at another college. Transfer students who have completed less than 12 credit hours of college study must submit either ACT or SAT scores.

Ordinarily, credits earned at an accredited college are accepted by the University. The College, however, will evaluate all hours submitted on an application for transfer and reserves the right to accept or reject any of them. Sixty is the maximum number of hours UNL will accept on transfer from a two-year college. Ninety is the maximum number of hours UNL will accept from a four-year college. Transfer credit in the degree program must be approved by the degree program advisor on a Request for Substitution Form to meet specific course requirements, group requirements, or course level requirements in the major. At least 9 hours in the major field, including the capstone course, must be completed at UNL regardless of the number of hours transferred.

The College will accept no more than 10 semester hours of C-, D+, D and D- grades from other schools. The C-, D+, D and D- grades can only be applied to free electives. This policy does not apply to the transfer of grades from UNO or UNK to UNL.

#### Joint Academic Transfer Programs

The College of Agricultural Sciences and Natural Resources has agreements with many institutions to support joint academic programs. The transfer

programs include dual degree programs and cooperative degree programs. Dual degree programs offer students the opportunity to receive a degree from a participating institution and also to complete requirements for a bachelor of science degree in CASNR. Cooperative programs result in a single degree from either UNL or the cooperating institution.

### Dual Degree Programs

#### A to B Programs

The A to B Program, a joint academic program offered by the CASNR and participating community colleges, allows students to complete the first two years of a degree program at the participating community college and continue their education and study in a degree program leading toward a bachelor of science degree.

The A to B Program provides a basic knowledge plus specialized course work. Students transfer into CASNR with junior standing. Depending on the community college, students enrolled in the A to B Program may complete the requirements for an associate of science at the community college, transfer to UNL, and work toward a bachelor of science degree.

Participating community colleges include:

- Central Community College
- Metropolitan Community College
- Mid-Plains Community College
- Northeast Community College
- Southeast Community College
- Western Nebraska Community College

#### 3+2 Programs

Two specialized degree programs in **animal science** and **veterinary science** are offered jointly with an accredited college or school of veterinary medicine. These two programs permit CASNR animal science or veterinary science students to receive a bachelor of science degree from UNL with a degree in animal science or veterinary science after successfully completing two years of the professional curriculum in veterinary medicine at an accredited veterinary school. Students who successfully complete the 3+2 Program, must complete the "Application for Degree" form and provide transcripts to the Credentials Clerk, Office of the University Registrar, 107 Canfield Administration Building, UNL. Students should discuss these degree programs with their academic advisor.

### Cooperative Degree Programs

Academic credit from UNL and a cooperating institution is applied towards a four-year degree from either UNL (UNL degree-granting program) or the cooperating institution (non UNL degree-granting program). All have approved programs of study.

### UNL Degree-Granting Programs

A UNL degree-granting program is designed to provide students the opportunity to complete a two-year program of study at one of the four-year institutions listed below, transfer to CASNR and complete the requirements for a bachelor of science degree.

**Chadron State College.** Chadron State College offers a 2+2 program leading to a grassland ecology and management degree program.

**University of Nebraska at Kearney.** Transfer programs are available for students pursuing degree programs leading to a bachelor of science degree.

**University of Nebraska at Omaha.** The University of Nebraska at Omaha (UNO) cooperates with CASNR in providing four-semester pre-agricultural sciences, pre-natural resources, pre-food science and technology, and pre-horticulture transfer programs.

A student enrolled in these programs may transfer all satisfactorily completed academic credits identified in the suggested program of study, and enter CASNR to study toward a degree program leading to a bachelor of science degree. The total program would require a minimum of four years or eight semesters (16 credit hours/semester or 120 credit hours).

UNL CASNR faculty teach horticulture and food science and technology courses at UNO to assist an urban population in better understanding the food processing, horticulture, and landscape horticulture industries.

For more information, contact Associate Professor Steven Rodie, Pre-Horticulture Program, University of Nebraska at Omaha, 402-554-3752; and/or the CASNR Dean's Office, 800-472-8800, ext. 2541.

### Non UNL Degree-Granting Programs

The CASNR cooperates with other institutions to provide course work that is applied towards a degree at the cooperating institution. Pre-professional programs offered by CASNR allow students to complete the first two or three years of a degree program at UNL prior to transferring and completing a degree at the cooperating institution.

**Chadron State College-Range Science.** The 3+1 Program in range science allows Chadron State College students to pursue a range science degree through Chadron State College. Students complete three years of course work at Chadron State College and one year of specialized range science course work (32 credit hours) at CASNR.

**Dordt College (Iowa) - Agricultural Education: Teaching Option.** This program allows students to pursue an Agricultural Education Teaching Option degree leading toward a bachelor of science in agricultural education. Students at Dordt College will complete 90 credit hours in the Agricultural Education: Teaching Option Transfer Program.

### Residency

Students must complete at least 30 of the total hours for their degree using UNL credits. Credit earned during education abroad may be used toward the residency requirement if students register through UNL and participate in prior-approved education abroad programs. UNL open enrollment and summer independent study courses count toward residence.

### Online and Distance Education

There are many opportunities to earn college credit through the University of Nebraska-Lincoln Office of Online and Distance Education. Some of these credits may be applicable not only as elective credits, but also toward the fulfillment of the College's education requirements. Credits earned through the UNL Online and Distance Education program may count toward residency. However, certain offerings may not be counted toward scholarship requirements or academic recognition criteria.

### For further information, contact:

Office of Online and Distance Education  
University of Nebraska-Lincoln  
2100 Vine Street  
Lincoln, NE 68588-8307  
402-472-2175  
<http://online.unl.edu/>

### Independent Study Rules

Students wishing to take part in independent studies must obtain permission; complete and sign a contract form; and furnish copies of the contract to the instructor, advisor, departmental office, and the Dean's Office. The contract should be completed before registration. Forms are available in 103 Agricultural Hall or online at the CASNR website.

Independent study projects include research, literature review or extension of course work under supervision and evaluation of a departmental faculty member.

Students may only count 12 hours of independent study toward their degrees and no more than 6 hours can be counted during their last 36 hours earned, excluding senior thesis, internships, and courses taught under an independent study number.

### Other College Degree Requirements

#### Capstone Course Requirement

A capstone course is required for each CASNR degree program. A capstone course is defined as a course in which students are required to integrate diverse bodies of knowledge to solve a problem or formulate a policy of societal importance.

### ACE Requirements

All students must fulfill the Achievement Centered Education (ACE) requirements. Information about the ACE program may be viewed at [www.ace.unl.edu](http://www.ace.unl.edu). The minimum requirements of CASNR reflect the common core of courses that apply to students pursuing degrees in the college. Students should work with an advisor to satisfy ACE outcomes 1, 2, 3, 4, 6 and 10 with the college requirements.

### Bulletin Rule

Students must fulfill the requirements stated in the bulletin for the academic year in which they are first admitted to UNL or when they were first admitted to a Joint Academic Transfer Program. In consultation with advisors, a student may choose to follow a subsequent bulletin for any academic year in which they are admitted to and enrolled as a degree-seeking student at UNL in the College of Agricultural Sciences and Natural Resources. Students must complete all degree requirements from a single bulletin year. The bulletin which a student follows for degree requirements may not be more than 10 years old at the time of graduation.

UNIVERSITY OF NEBRASKA-LINCOLN

**N** UNDERGRADUATE BULLETIN 2016-2017

AGRICULTURAL SCIENCES &amp; NATURAL RESOURCES

**PGA Golf Management**

## Quick points

College:	Agricultural Sciences & Natural Resources
Degree Offered:	Bachelor of Science in PGA Golf Management
Hours Required:	120
Minimum Cumulative GPA:	2.0 for graduation
Minor Available:	No
Advisor:	Dann Husmann

**DESCRIPTION**

Director: **Dann Husmann**, PGA Golf Management Program, 203 Keim Hall  
 Website: <http://pgm.unl.edu>

## PGA Golf Management

- For students who wish to be educated in all aspects of the golf industry and become PGA members.
- One of 18 accredited PGA Golf Management University Programs in the country.
- Classroom instruction, a player development program taught by PGA professionals, and structured internship experiences provide a basic background in managing golf facilities and related organizations, business and personnel management, restaurant and hospitality management, turfgrass, recreation, and golf instruction methods.
- PGA Golf Management Student Club conducts numerous tournaments each semester.
- Graduates are eligible for PGA Class A membership.
- Additional PGA Golf Management fees apply.

**MAJOR REQUIREMENTS**

## Core Requirements

<b>College Integrative Courses</b>	<b>3</b>
SCIL 101 Science and Decision-Making for a Complex World	3
<b>Mathematics and Statistics (beyond college algebra) (ACE 3)</b>	<b>5-6</b>
Select from: MATH 106 Calculus I (5 cr) STAT 218 Introduction to Statistics (3 cr) and either MATH 102 Trigonometry (2 cr) or *MATH 103 College Algebra & Trigonometry (5 cr) or MATH 104 Applied Calculus (3 cr) or MATH 203 Contemporary Mathematics (3 cr) (ACE 3)	
* If MATH 103 is taken, only 2 credit hours can be counted toward this requirement.	
<b>Communications</b>	<b>9</b>
Written Communication (ACE 1)	3
Select from: ENGL 150, ENGL 151, ENGL 254, JGEN 120, JGEN 200, JGEN 300	
Oral Communication (ACE 2)	3
Select from: COMM 101, COMM 209, COMM 286	
Leadership (ACE 2)	3
ALEC 102 Interpersonal Skills for Leadership	
<b>Natural Sciences</b>	<b>8</b>



CHEM 105 Chemistry in Context I or CHEM 109 General Chemistry I (ACE 4)	4
CASNRR Approved Life Sciences (select one from):	4
AGRO 131 Plant Science & AGRO 132 Agronomic Plant Science Lab (4 hrs)	
BIOS 101 & BIOS 101L General Biology & Lab (4 hrs)	
BIOS 109 General Botany (4 hrs)	
ENTO 115 Insect Biology & ENTO 116 Insect Identification Lab (4 hrs)	
HORT 131 Plant Science & HORT 133 Horticultural Plant Science Lab (4 hrs)	
<b>Economics, Humanities and Social Sciences</b>	<b>9</b>
ACE Courses	9
Select one course each from ACE outcomes 5, 7, and 9.	

## Specific Major Requirements

<b>Additional Plant and/or Natural Sciences</b>	<b>8</b>
AGRO 153 Soil Resources (HORT 153/SOIL 153) (4 hrs)	
PGAM 227 Introductory Turfgrass Management (AGRO 227/HORT 227/TLMT 227) & PGAM 229 Turfgrass Management Lab for PGAM Students	4
<b>Food Service Management</b>	<b>9</b>
HRTM 274 Introduction to Food & Beverage in the Hospitality Industry	3
HRTM 374 Guest Services Management	3
HRTM 373 Catering	3
<b>Business (constitutes Business Minor)</b>	<b>18</b>
ACCT 200 Accounting for Business Decisions	3
BLAW 300 Business, Government & Society (ACE 8)	3
ECON 200 Economic Essentials & Issues (ACE 6)	3
FINA 300 Financial Decision Making	3
MNGT 300 Management Essentials for Contemporary Organizations	3
MRKT 300 Contemporary Marketing	3
<b>NOTE:</b> The above block of six courses is for non-business majors. If a student switches to the College of Business Administration, these courses will not satisfy requirements for a business major or minor.	
<b>PGAM Courses</b>	<b>24-39</b>
PGAM 101 Introduction to PGA Golf Management 2.0	3
PGAM 112 PGA Golf Management 2.0 Level 1-A	3
PGAM 201 PGA Golf Management 2.0 Level 1-B	3
PGAM 212 PGA Golf Management 2.0 Level 2-A	3
PGAM 295 Professional Golf Management Extended Internship	0
PGAM 301 PGA Golf Management 2.0 Level 2-B	3
PGAM 312 PGA Golf Management 2.0 Level 3-A	3
PGAM 401 PGA Golf Management 2.0 Level 3-B	3
PGAM 489 PGA Golf Management Integration (ACE 10)	3
PGAM 495 Internship in PGA Golf Management	0-15
<b>Free Electives</b>	<b>11-28</b>
<b>Total Credit Hours</b>	<b>120</b>

## ADDITIONAL MAJOR REQUIREMENTS

### GPA Requirements (related to the major)

Students are expected to maintain a 2.5 grade point average, which is required for the College of Business Administration courses.

### Internship Credit Rules (related to the major)

Complete 16 months of internships in at least three settings, following the eligible employment guidelines outlined in the PGA Constitution.

### Other Requirements

- Participate in Playing Ability Test once in first year and twice each succeeding year until the PAT is passed.
- Complete Level 3 of the PGA Golf Management Program.

## COLLEGE REQUIREMENTS

### College Admission

Requirements for admission into the College of Agricultural Sciences and Natural Resources (CASNRR) are consistent with general University admission

through CASNR<sup>1</sup> (>299) including the appropriate ACE 10 degree requirement or an approved ACE 10 substitution offered through another UNL college and excluding independent study regardless of number of hours transferred. Credit earned during education abroad may be used toward the residency requirement if students register through UNL and participate in prior-approved education abroad programs. UNL open enrollment and summer independent study courses count toward residence.

<sup>1</sup> Includes courses taught by CASNR faculty through interdisciplinary prefixes (e.g., LIFE, MBIO, ENVR, SCIL, EAEP, HRTM, ENSC) and CASNR crosslisted courses taught by non-CASNR faculty.

### Online and Distance Education

There are many opportunities to earn college credit through the University of Nebraska-Lincoln Office of Online and Distance Education. Some of these credits may be applicable not only as elective credits, but also toward the fulfillment of the College's education requirements. Credits earned through the UNL Online and Distance Education program may count toward residency. However, certain offerings may not be counted toward scholarship requirements or academic recognition criteria.

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University of Nebraska-Lincoln  
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Lincoln, NE 68588-8307  
402-472-2175  
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Independent study projects include research, literature review or extension of course work under supervision and evaluation of a departmental faculty member.

Students may only count 12 hours of independent study toward their degrees and no more than 6 hours can be counted during their last 36 hours earned, excluding senior thesis, internships, and courses taught under an independent study number.

### Other College Degree Requirements

#### Capstone Course Requirement

A capstone course is required for each CASNR degree program. A capstone course is defined as a course in which students are required to integrate diverse bodies of knowledge to solve a problem or formulate a policy of societal importance.

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All students must fulfill the Achievement Centered Education (ACE) requirements. Information about the ACE program may be viewed at [www.ace.unl.edu](http://www.ace.unl.edu). The minimum requirements of CASNR reflect the common core of courses that apply to students pursuing degrees in the college. Students should work with an advisor to satisfy ACE outcomes 1, 2, 3, 4, 6 and 10 with the college requirements.

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Students must fulfill the requirements stated in the bulletin for the academic year in which they are first admitted to UNL or when they were first admitted to a Joint Academic Transfer Program. In consultation with advisors, a student may choose to follow a subsequent bulletin for any academic year in which they are admitted to and enrolled as a degree-seeking student at UNL in the College of Agricultural Sciences and Natural Resources. Students must complete all degree requirements from a single bulletin year. The bulletin which a student follows for degree requirements may not be more than 10 years old at the time of graduation.

### Appendix C: UNL PGA Golf Management Student Tournament Performance

These lists show the amount earned by students playing well in PGA Golf Management events. Playing for money serves the purpose of creating higher-pressure situations for practice.

Fall 2004			Spring 2005			Fall 2005		
	Student Name	Prize Money		Student Name	Prize Money		Student Name	Prize Money
1	Svoboda, Garrett	\$515	1	White, Josh	\$415	1	White, Josh	\$535
2	Harrell, Jason	\$455	2	Harrell, Jason	\$270	2	Moberg, Kevin	\$470
3	Bolin, Tyler	\$405	3	Wetovick, Zach	\$135	3	Miller, Travis	\$295
4	White, Josh	\$395	4	Driscoll, Tony	\$130	4	Bolin, Tyler	\$270
5	Kalin, Jared	\$260	5	Kalin, Nathan	\$120	5	Harrell, Jason	\$265
6	Little, Eric	\$255	6	Bolin, Tyler	\$120	6	Cloke, Brad	\$260
7	Kalin, Nathan	\$160	7	Svoboda, Garrett	\$90	7	Greene, William	\$230
8	Spence, Greg	\$130	8	Wise, Chris	\$90	8	Limbeck, Justin	\$205
9	Rosenow, Ryan	\$130	9	Cloke, Brad	\$65	9	Canny, Joe	\$185
10	Cloke, Brad	\$120	10	Schafersman, Todd	\$60	10	Ceder, Derrick	\$180
11	Kupitz, Ross	\$120	11	Kupitz, Ross	\$50	11	Coats, Brian	\$175
12	Driscoll, Tony	\$105	12	Mays, Eliot	\$15	12	Svoboda, Garrett	\$145
13	Peterson, Chris	\$100	13	Peterson, Chris	\$15	13	Carlson, Colin	\$140
14	Muller, Nick	\$90	14	Spence, Greg	\$15	14	Owens, Zach	\$110
15	Grant, Michael	\$70	15	Morgan, Brett	\$0	15	Schafersman, Todd	\$110
16	Seiler, Matt		16	Schlotfeld, Josh		16	Hoesing, Jon	\$85
						17	Wise, Chris	\$75
						18	Partelow, Barry	\$70
						19	Thiner, Anthony	\$65
						20	Lien, Jon	\$65

## Fall 2006

	Student Name	Prize Money
1	Moberg, Kevin	\$810
2	White, Josh	\$474
3	Bolin, Tyler	\$375
4	Holgate, Mitchell	\$320
5	Schafersman, Todd	\$230
6	Harrell, Jason	\$200
7	Cloke, Brad	\$190
8	Froehlich, Carly	\$140
9	Carlson, Colin	\$140
10	Vest, Derrick	\$135
11	Miller, Travis	\$130
12	Harper, Ryan	\$110
13	Mihovk, Jacque	\$110
14	Harmon, Thomas	\$105
15	Dwornicki, Mark	\$105
16	Ceder, Derrick	\$100
17	Greene, William	\$95
18	Sullivan, Justin	\$85
19	Coats, Brian	\$85
20	Hoesing, Jon	\$80

## Spring 2006

	Student Name	Prize Money
1	White, Josh	\$265
2	Harrell, Jason	\$247
3	Moberg, Kevin	\$225
4	Greene, William	\$195
5	Long, Cody	\$155
6	Hanssen, Ben	\$142
7	Limbeck, Justin	\$140
8	Miller, Travis	\$105
9	Boysen, John	\$95
10	Canny, Joe	\$95
11	Svoboda, Garrett	\$90
12	Mihovk, Jacque	\$90
13	Haumont, Robert	\$77
14	Bolin, Billy	\$75
15	Hoesing, Jon	\$75
16	Cloke, Brad	\$65
17	Carlson, Colin	\$65
18	Wetovick, Zach	\$53
19	Anderson, Jon	\$40
20	Dwornicki, Mark	\$40



Spring 2008

	Student Name	Prize Money
1	Holgate, Mitchell	\$430
2	Greene, William	\$220
3	Drew, Kevin	\$190
4	Moore, Jonathan	\$185
5	Bolin, Billy	\$175
6	Collins, Tony	\$145
7	Praeger, Alex	\$125
8	Burkart, Nick	\$125
9	Schafersman, Todd	\$100
10	Vest, Derrick	\$100
11	VanScyoc, Drew	\$75
12	Munford, Nathan	\$75
13	Bullerman, Kyle	\$75
14	Larson, Nicholas	\$75
15	Beach, Alex	\$70
16	Thompson, Drew	\$65
17	Peyton, Eric	\$50
18	Piper, Matt	\$45
19	Loeffler, Chris	\$40
20	Renz, Mike	\$40

Fall 2007

	Student Name	Prize Money
1	Moberg, Kevin	\$627
2	Long, Cody	\$355
3	Greene, William	\$322
4	Carlson, Colin	\$235
5	Lloyd, Travis	\$177
6	Vest, Derrick	\$175
7	Burkart, Nick	\$172
8	Rich, Jared	\$167
9	Cloke, Brad	\$165
10	Hart, Justin	\$157
11	Holgate, Mitchell	\$157
12	Haumont, Robert	\$150
13	Harmon, Thomas	\$145
14	Klutman, Quinn	\$140
15	Drew, Kevin	\$130
16	Robertson, Andrew	\$130
17	Mitchum, Dominick	\$125
18	Keenan, Jared	\$125
19	Thiner, Anthony	\$112
20	Abernethy, Lisa	\$112

Spring 2007

	Student Name	Prize Money
1	Moberg, Kevin	\$330
2	Holgate, Mitchell	\$323
3	Bolin, Tyler	\$315
4	Carlson, Colin	\$265
5	Greene, William	\$264
6	White, Josh	\$210
7	Cloke, Brad	\$183
8	Harrell, Jason	\$130
9	Bolin, Billy	\$119
10	Fagen, Brett	\$105
11	Miller, Travis	\$105
12	Hoesing, Jon	\$100
13	Svoboda, Garrett	\$95
14	Long, Cody	\$95
15	Froehlich, Carly	\$95
16	Harmon, Thomas	\$74
17	Cole, Anthony	\$70
18	Farrell, Maureen	\$65
19	Rohde, Joshua	\$60
20	Meuret, Matt	\$50



Fall 2009

	Student Name	Prize Money
1	Christenson, Nicholas	\$901
2	Francois, Derek	\$801
3	Beach, Alex	\$767
4	Burkart, Nick	\$638
5	Brandt, Kyle	\$456
6	Drew, Kevin	\$368
7	Wiebe, Brooks	\$307
8	Benson, Jon	\$307
9	Johnson, Aaron	\$289
10	Carlson, Colin	\$215
11	Osterthun, Mike	\$210
12	Heng, Dylan	\$204
13	Weaver, James	\$195
14	Chamberlain, Matt	\$187
15	Mihovk, Jacque	\$165
16	Long, Cody	\$160
17	Stava, Mark	\$125
18	Kontor, Colby	\$120
19	Adamsick, Andrew	\$119
20	Austin, Shea	\$105

Spring 2009

	Student Name	Prize Money
1	Burkart, Nick	\$695
2	Drew, Kevin	\$548
3	Holgate, Mitchell	\$473
4	Harmon, Thomas	\$407
5	Christenson, Nicholas	\$367
6	Francois, Derek	\$325
7	Peyton, Eric	\$300
8	Lloyd, Travis	\$272
9	Meuret, Matt	\$234
10	Greene, William	\$224
11	Johnson, Aaron	\$217
12	Bolin, Billy	\$200
13	Vest, Derrick	\$197
14	Long, Cody	\$161
15	Robertson, Andrew	\$135
16	Beach, Alex	\$135
17	Munford, Nathan	\$97
18	Carlson, Colin	\$97
19	ONeill, Sean	\$97
20	Brandt, Kyle	\$92

Fall 2008

	Student Name	Prize Money
1	Lloyd, Travis	\$373
2	Vest, Derrick	\$370
3	Carlson, Colin	\$303
4	Drew, Kevin	\$303
5	Christenson, Nicholas	\$265
6	Peyton, Eric	\$258
7	Brandt, Kyle	\$213
8	Burkart, Nick	\$188
9	Harper, Ryan	\$175
10	Beach, Alex	\$165
11	Francois, Derek	\$140
12	Praeger, Alex	\$135
13	Rich, Jared	\$128
14	Hart, Justin	\$128
15	Martin, Scott	\$120
16	Renz, Mike	\$110
17	Fedde, Jay	\$100
18	Johnson, Aaron	\$95
19	Trapp, Josh	\$95
20	Munford, Nathan	\$80

Fall 2011

	Student Name	Prize Money
1	Francois, Derek	\$1255
2	Christenson, Nicholas	\$935
3	Adamsick, Andrew	\$790
4	Erickson, John	\$710
5	Jonell, Sam	\$495
6	Ratzlaff, Eric	\$435
7	Gorsett, Cody	\$315
8	Pribnow, Jacob	\$250
9	Sabol, Matt	\$225
10	Osterthun, Mike	\$200
11	Stava, Mark	\$160
12	ONeill, Sean	\$160
13	May, Dillon	\$140
14	Lebental, Brandon	\$135
15	Wiebe, Brooks	\$130
16	Kaup, Jack	\$125
17	Hagenbucher, Patrick	\$105
18	Moore, Andrew	\$100
19	Lindahl, Connor	\$100
20	Inutsuka, Nicholas	\$100

Spring 2011

	Student Name	Prize Money
1	Christenson, Nicholas	\$684
2	Francois, Derek	\$682
3	Osterthun, Mike	\$540
4	Johnson, Aaron	\$444
5	Adamsick, Andrew	\$250
6	Jonell, Sam	\$235
7	Ratzlaff, Eric	\$235
8	Chamberlain, Matt	\$235
9	Burkart, Nick	\$230
10	Lloyd, Travis	\$220
11	Erickson, John	\$215
12	Braasch, Brandon	\$205
13	Malzahn, Ethan	\$200
14	Johnson, Ben	\$192
15	Beach, Alex	\$180
16	Taylor, Jordan	\$150
17	Parsloe, Tyler	\$140
18	Lambing, Levi	\$135
19	Lindahl, Connor	\$120
20	Moore, Andrew	\$120

Fall 2010

	Student Name	Prize Money
1	Francois, Derek	\$1104
2	DePalma, Tony	\$885
3	Burkart, Nick	\$792
4	Lloyd, Travis	\$570
5	Johnson, Aaron	\$482
6	Brandt, Kyle	\$432
7	Erickson, John	\$420
8	Jonell, Sam	\$332
9	Moore, Andrew	\$330
10	Meuret, Matt	\$317
11	Parsloe, Tyler	\$310
12	Albrecht, Bradley	\$252
13	Wiebe, Brooks	\$235
14	Chamberlain, Matt	\$232
15	Preissler, Eric	\$197
16	Adamsick, Andrew	\$185
17	Osterthun, Mike	\$180
18	Lindahl, Connor	\$170
19	Rutledge, Anthony	\$150
20	Ratzlaff, Eric	\$147



Fall 2014

	Student Name	Prize Money
1	Scott, Ian	\$660
2	Lindahl, Connor	\$618
3	Zimmerman, Nathan	\$606
4	Bailey, Brad	\$600
5	Davis, Grant	\$577
6	Klug, Brett	\$535
7	Peterson, Garrett	\$474
8	Becker, Reed	\$385
9	Causgrove, Ben	\$254
10	Peterson, Trenton	\$217
11	Kurylo, Jonathan	\$205
12	Parise, Ryan	\$190
13	Kaup, Jack	\$186
14	Loudner, Dakota	\$155
15	Gade, Alexander	\$120
16	Danek, John	\$120
17	VanErt, Andrew	\$120
18	Kuhlman, Jacob	\$100
19	Williams, Jordan	\$97
20	Carlson, Derek	\$75

Spring 2014

	Student Name	Prize Money
1	Moore, Andrew	\$1035
2	Davis, Grant	\$655
3	Zimmerman, Nathan	\$655
4	Adamsick, Andrew	\$600
5	Bailey, Brad	\$415
6	Inutsuka, Nicholas	\$360
7	Lindahl, Connor	\$305
8	Scott, Ian	\$285
9	Dravland, Dylan	\$250
10	Baker, Travis	\$235
11	Kaup, Jack	\$215
12	Becker, Reed	\$175
13	Causgrove, Ben	\$165
14	Williams, Jordan	\$165
15	Kurylo, Jonathan	\$150
16	Hagenbucher, Patrick	\$135
17	Peterson, Garrett	\$135
18	Klug, Brett	\$130
19	Peterson, Trenton	\$130
20	Sabol, Matt	\$110

Fall 2013

	Student Name	Prize Money
1	Davis, Grant	\$610
2	Gorsett, Cody	\$570
3	Klug, Brett	\$495
4	Zimmerman, Nathan	\$385
5	Moore, Andrew	\$370
6	Bailey, Brad	\$325
7	Peterson, Al	\$310
8	Williams, Jordan	\$275
9	Causgrove, Ben	\$250
10	May, Dillon	\$140
11	Kent, Garrett	\$135
12	Kuhlman, Jacob	\$115
13	Hagenbucher, Patrick	\$100
14	Loudner, Dakota	\$95
15	Kaup, Jack	\$95
16	Wroot, Casey	\$90
17	Lindenbaum, Adam	\$85
18	Frodyma, Jacob	\$80
19	Baker, Travis	\$75
20	Buckmeier, Carter	\$75

Spring 2013

	Student Name	Prize Money
1	Ray, Seth	\$525
2	Davis, Grant	\$510
3	Lindenbaum, Adam	\$385
4	Klug, Brett	\$305
5	Ratzlaff, Eric	\$295
6	Francois, Derek	\$245
7	Lindahl, Connor	\$235
8	Moore, Andrew	\$220
9	Causgrove, Ben	\$190
10	Scott, Ian	\$170
11	Johnson, Aaron	\$165
12	Sabol, Matt	\$165
13	Oswald, Mitchell	\$150
14	Reicks, Bret	\$135
15	Adamsick, Andrew	\$130
16	Gorsett, Cody	\$130
17	Frakes, Andrew	\$115
18	Hagenbucher, Patrick	\$110
19	Johnson, Eric	\$100
20	Erickson, John	\$85

Fall 2012

	Student Name	Prize Money
1	Lindahl, Connor	\$787
2	Johnson, Aaron	\$731
3	Davis, Grant	\$573
4	Francois, Derek	\$460
5	Ray, Seth	\$364
6	Inutsuka, Nicholas	\$320
7	Jonell, Sam	\$291
8	Wroot, Casey	\$270
9	Kent, Garrett	\$261
10	Erickson, John	\$232
11	Oswald, Mitchell	\$225
12	Baker, Dillon	\$208
13	Hagenbucher, Patrick	\$197
14	Wade, Michael	\$190
15	Klug, Brett	\$163
16	Juntunen, Thomas	\$145
17	Sabol, Matt	\$122
18	Gorsett, Cody	\$115
19	Johnson, Eric	\$115
20	Peterson, Al	\$93

Spring 2012

	Student Name	Prize Money
1	Christenson, Nicholas	\$875
2	Johnson, Aaron	\$635
3	Jonell, Sam	\$480
4	Erickson, John	\$480
5	Chamberlain, Matt	\$425
6	Wroot, Casey	\$360
7	Lindahl, Connor	\$335
8	Adamsick, Andrew	\$325
9	Moore, Andrew	\$215
10	Wade, Michael	\$195
11	Gorsett, Cody	\$180
12	Francois, Derek	\$175
13	Ratzlaff, Eric	\$150
14	Albrecht, Bradley	\$150
15	Ray, Seth	\$145
16	Lebental, Brandon	\$140
17	Kontor, Colby	\$130
18	May, Dillon	\$125
19	Rutledge, Anthony	\$120
20	Trapp, Josh	\$120



Spring 2016

	Student Name	Prize Money
1	Hart, Aaron	\$929
2	Bailey, Brad	\$762
3	Gleysteen, Zach	\$564
4	Samuelson, Kramer	\$540
5	Holland, Alex	\$357
6	Quinn, Hunter	\$278
7	Busch, Blake	\$265
8	Scott, Ian	\$250
9	Frodyma, Jacob	\$200
10	Peterson, Trenton	\$198
11	Furasek, Joseph	\$197
12	Becker, Reed	\$190
13	Miller, Austin	\$190
14	Sachen, Zachary	\$173
15	Carlson, Derek	\$160
16	Agena, Harrison	\$127
17	Neumer, Brad	\$125
18	Kuhlman, Jacob	\$93
19	Brod, James	\$85
20	Vaughn, Nathan	\$74

Fall 2015

	Student Name	Prize Money
1	Bailey, Brad	\$691
2	Peterson, Al	\$648
3	Samuelson, Kramer	\$592
4	Kuhlman, Jacob	\$556
5	Hart, Aaron	\$486
6	Sachen, Zachary	\$402
7	Zimmerman, Nathan	\$327
8	Lindahl, Connor	\$303
9	Davis, Zach	\$242
10	Holland, Alex	\$241
11	Gleysteen, Zach	\$234
12	Scott, Ian	\$183
13	Carlson, Derek	\$174
14	Lawson, Tyler	\$173
15	Becker, Reed	\$172
16	Miller, Brenden	\$110
17	Loudner, Travis	\$100
18	Maassen, Landan	\$95
19	Swanson, Mitchell	\$89
20	Neumer, Brad	\$80

Spring 2015

	Student Name	Prize Money
1	Moore, Andrew	\$830
2	Zimmerman, Nathan	\$710
3	Klug, Brett	\$653
4	Lindahl, Connor	\$579
5	Hart, Aaron	\$573
6	Bailey, Brad	\$545
7	Causgrove, Ben	\$505
8	Davis, Grant	\$493
9	Scott, Ian	\$220
10	Frodyma, Jacob	\$197
11	Gleysteen, Zach	\$195
12	Brod, James	\$160
13	Miller, Austin	\$143
14	Lawson, Tyler	\$140
15	Gade, Alexander	\$118
16	Thompson, Trevor	\$115
17	Schuetz, Owen	\$112
18	Holland, Alex	\$110
19	Kuhlman, Jacob	\$80
20	Bonet, John	\$75



Spring 2017

	Student Name	Prize Money
1	Hart, Aaron	\$295
2	Bailey, Brad	\$135
3	Samuelson, Kramer	\$107
4	Sheehy, Alexander	\$105
5	Weber, Cordell	\$105
6	Lawson, Tyler	\$100
7	Loudner, Travis	\$75
8	Furasek, Joseph	\$75
9	Miller, Brenden	\$65
10	StOnge, Nickolaus	\$55
11	Becker, Reed	\$50
12	Frodyma, Jacob	\$45
13	Peterson, Trenton	\$40
14	Vaughn, Nathan	\$32
15	Quinn, Hunter	\$30
16	Bukacek, Caleb	\$30
17	Morley, Zac	\$30
18	Sachen, Zachary	\$25
19	Busch, Blake	\$0
20	Lamoreaux, Jason	\$0

Fall 2016

	Student Name	Prize Money
1	Samuelson, Kramer	\$792
2	Weber, Cordell	\$629
3	Quinn, Hunter	\$503
4	Frodyma, Jacob	\$484
5	Sachen, Zachary	\$442
6	Gleysteen, Zach	\$405
7	Dell, Austin	\$303
8	Vaughn, Nathan	\$271
9	Davis, Zach	\$231
10	Furasek, Joseph	\$185
11	Sheehy, Alexander	\$118
12	Schroeder, Blake	\$106
13	Peterson, Trenton	\$87
14	Rice, Sam	\$45
15	Lebental, Brandon	\$44
16	Bond, Brendan	\$35
17	Bukacek, Caleb	\$35
18	Morley, Zac	\$35
19	Miller, Brenden	\$30
20	Martin, Samuel	\$30

**Appendix D: Internship host sites**

<b>Facility Name</b>	<b>City</b>	<b>State</b>
Ballantrae Golf Club	Pelham	AL
Ledges Country Club	Huntsville	AL
Carnoustie Golf Links	Carnoustie	Angus (Scotland)
Bella Vista POA	Bella Vista	AR
Chenal Country Club	Litte Rock	AR
El Dorado Country Club	El Dorado	AR
Desert Mountain Golf Club	Scottsdale	AZ
Dove Valley Ranch	Cave Creek	AZ
Flagstaff Ranch Golf Club	Flagstaff	AZ
Forest Highlands Golf Club	Flagstaff	AZ
Talking Rock Ranch	Prescott	AZ
The Pines Golf Club	Tucson	AZ
TPC Scottsdale	Scottsdale	AZ
Blackhawk Country Club	Danville	CA
Brentwood Country Club of Los Angeles	Los Angeles	CA
Pebble Beach Golf Links	Pebble Beach	CA
Poppy Ridge Golf Course	Livermore	CA
Rancho Canada Golf Club	Carmel	CA
San Joaquin Country Club	Fresno	CA
Stoneridge Country Club	Poway	CA
The Grand Golf Club	San Diego	CA
The Quarry at Laquinta	La Quinta	CA
Trump National Golf Club	Rancho Palos Verdes	CA
Trump National Golf Club	Los Angeles	CA
Aspen Glen Club	Carbondale	CO
Bear Dance Golf Club	Lakespur	CO
Boulder Country Club	Boulder	CO
Broadmoor Golf Club	Colorado Springs	CO
Castle Pines Country Club	Castle Rock	CO
Cherry Creek Country Club	Denver	CO
Cherry Creek Country Club	Denver	CO
Cherry Hills Country Club	Englewood	CO
Colorado Golf Club	Parker	CO
Columbine Country Club	Columbine Valley	CO
Country Club of the Rockies	Edwards	CO
Denver Country Club	Denver	CO
Eagle Ranch Golf Club	Eagle	CO

Eagle Springs Golf Club	Wolcott	CO
Eagle Vail Golf Club	Avon	CO
Fossil Trace Golf Club	Golden	CO
Green Valley Ranch Golf Club	Denver	CO
Maroon Creek Golf Club	Aspen	CO
Ptarmigan Country Club	Ft Collins	CO
Red Hawk Ridge	Castle Rock	CO
Sanctuary Golf Course	Sedalia	CO
The Club at Cordillera	Edwards	CO
The Club at Pradera	Parker	CO
The Country Club at Castle Pines	Castle Rock	CO
The Golf Club at Ravenna	Littleton	CO
The Pinery Country Club	Parker	CO
Vail Golf Club	Vail	CO
Round Hill Club	Greenwich	CT
TPC River Highlands	Cromwell	CT
Western Hills Golf Course	Waterbury	CT
Atlantis Golf Club	Atlantis	FL
Boca Grove Country Club	Boca Raton	FL
Edwin Watts Golf Academy	Jacksonville	FL
Haile Plantation Golf and Country Club	Gainesville	FL
Hibiscus Golf Club	Naples	FL
IMG Academies (David Leadbetter Golf Academy)	Bradenton	FL
PGA Junior Series	Palm Beach	FL
	Gardens	
PGA of America	Palm Beach	FL
	Gardens	
Sailfish Pointe Golf Club	Stuart	FL
The Everglades Club	Palm Beach	FL
The First Tee of North Florida at Brentwood Golf Course	Jacksonville	FL
The Founders Club	Sarasota	FL
The Quarry	Naples	FL
TPC Sawgrass	Ponte Vedra Beach	FL
Woodfield Country Club	Boca Raton	FL
Alpharetta Athletic Club	Milton	GA
Atlanta National Golf Club	Alpharetta	GA
Callaway Gardens	Pine Mtn.	GA
Crooked Creek Club	Alpharetta	GA
Sea Island Golf Learning Center	St Simons	GA
Sea Island Retreat Club	St. Simons Island	GA
The Club of Savannah Harbor	Savannah	GA

West Lake Country Club	Augusta	GA
Kohanaiki Golf and Ocean Club	Kailua-Kona	HI
Bent Tree Golf Club	Council Bluffs	IA
Blue Top Ridge Casino and Golf Resort	Riverside	IA
Bos Landen Golf Club	Pella	IA
Brooks Golf Club	Okoboji	IA
Council Bluffs Country Club	Council Bluffs	IA
Crestmoor Country Club	Prescott	IA
Crow Valley Golf Club	Davenport	IA
Davenport Country Club	Pleasant Valley	IA
Des Moines Golf and Country Club	West Des Moines	IA
Emerald Hills Golf Course	Arnolds Park	IA
Fox Ridge Golf Club	Dike	IA
Fox Run Golf Club	Council Bluffs	IA
Glen Oaks Country Club	West Des Moines	IA
Glenwood Golf Course	Glenwood	IA
Hyperion Field Club	Johnston	IA
Indian Hills Golf Club	Spirit Lake	IA
Le Mars Municipal Golf Course	Le Mars	IA
Legend Trail Golf Club	Parkersburg	IA
Sibley Golf and Country Club	Sibley	IA
Sioux City Country Club	Sioux City	IA
The Harvester	Rhodes	IA
The Preserve on Rathbun Lake	Moravia	IA
Veenker Memorial Golf Course	Ames	IA
Veenker Memorial Golf Course	Ames	IA
Wakonda Club	Des Moines	IA
Whispering Creek Golf Club	Sioux City	IA
Willow Creek Golf Course	LeMars	IA
The Club at Black Rock	Coeur d Alene	ID
The Golf Club at Black Rock	Coeur d Alene	ID
Whitetail Club	McCall	ID
Arrowhead Golf Club	Wheaton	IL
Bloomingtondale Golf Club	Bloomingtondale	IL
Calumet Country Club	Homewood	IL
Chicago Golf Club	Wheaton	IL
Cog Hill Golf and Country Club	Lemont	IL
Conway Farms Golf Club	Lake Forest	IL
Eagle Ridge Resort and Spa	Galena	IL
Evanston Golf Club	Skokie	IL
Glen Oak Country Club	Glen Ellyn	IL

GreenToTee Golf Academy	Glencoe	IL
Harborside International Golf Club	Chicago	IL
Hinsdale Golf Club	Clarendon Hills	IL
Illinois Junior Golf Association (IJGA)	Lemont	IL
Indian Lakes Resort	Bloomington	IL
Kemper Lakes Golf Club	Kildeer	IL
Knollwood Club	Lake Forest	IL
La Grange Country Club	La Grange	IL
Medinah Country Club	Medinah	IL
Olympia Fields Country Club	Olympia Fields	IL
Rockford Country Club	Rockford	IL
Royal Melbourne Country Club	Long Grove	IL
Short Hills Country Club	East Moline	IL
Skokie Country Club	Glencoe	IL
St Clair Country Club	Belleville	IL
St. Charles Country Club	St Charles	IL
Stonebridge Country Club	Aurora	IL
Sunset Ridge Country Club	Northfield	IL
Titleist Golf	Lake Zurich	IL
TPC Deere Run	Silvis	IL
Twin Orchard Country Club	Long Grove	IL
Westmoreland Country Club	Wilmette	IL
White Eagle Golf Club	Naperville	IL
Wilmette Golf Club	Wilmette	IL
Wynstone Golf Club	North Bannington	IL
Inverness Golf Club	Inverness	IL
Hickory Stick Golf Club	Greenwood	IN
Hillcrest Country Club	Batesville	IN
Indian Hills Country Club	Mission Hills	KS
Alvamar Country Club	Lawrence	KS
Falcon Ridge Golf Course	Lenexa	KS
Kansas City Country Club	Mission Hills	KS
Lawrence Country Club	Lawrence	KS
Milburn Golf & Country Club	Overland Park	KS
Mission Hills Country Club	Mission Hills	KS
Overland Park Golf Club	Overland Park	KS
Prairie Dunes Country Club	Hutchinson	KS
Topeka Country Club	Topeka	KS
Wichita Country Club	Wichita	KS
The Golf Courses of Kenton County	Independence	KY
Pelican Point Golf and Country Club	Gonzales	LA



Nashawtuc Country Club	Concord	MA
TPC Boston	Norton	MA
Swan Point Yacht & Country Club	Issue	MD
Congressional Country Club	Bethesda	MD
Country Club at Woodmore	Mitchellville	MD
TPC Potomac at Avenel Farm	Potomac	MD
US Golf Camps	Olney	MD
Maine Golf and Tennis Academy	Belgrade	ME
Boyne Highlands Resorts	Harbor Springs	MI
Bearpath Golf and Country Club	Eden Prairie	MN
Bracketts Crossing Country Club	Lakeville	MN
Champions Tour, 3M Championship	Blaine	MN
Cragun	Brainerd	MN
Dellwood Country Club	Dellwood	MN
Edina Country Club	Edina	MN
Edinburgh USA	Brooklyn Park	MN
Forest Hills Golf Club	Forest Lake	MN
Foretees	St. Paul	MN
Golden Valley G & CC	Golden Valley	MN
Hazeltine National Golf Club	Chaska	MN
Interlachen Country Club	Edina	MN
Maddens on Gull Lake	Brainerd	MN
Medina Golf and Country Club	Medina	MN
Minikahda Club	Minneapolis	MN
Minneapolis Golf Club	St Louis Park	MN
Minnesota Golf Association	Edina	MN
North Oaks Golf Club	North Oaks	MN
Owatonna Country Club	Owatonna	MN
Rush Creek	Maple Grove	MN
Spring Hill Golf Club	Wayzata	MN
Tournament Players Club (TPC) of the Twin Cities	Blaine	MN
Town and Country Club	St. Paul	MN
TPC of the Twin Cities	Blaine	MN
White Bear Yacht Club	White Bear Lake	MN
Windsong Farm Golf Club	Independence	MN
Woodhill Country Club	Wayzata	MN
Worthington Country Club	Worthington	MN
Wyzata Country Club	Wyzata	MN
Bellerive Country Club	St Louis	MO
Blue Hills Country Club	Kansas City	MO
Boone Valley Golf Club	Augusta	MO

Dogwood Hills Golf Course	Osage Beach	MO
Forest Hills Country Club	Clarkson Valley	MO
Loch Lloyd Country Club	Village of Loch Lloyd	MO
Meadowbrook Country Club	Ballwin	MO
Moila Country Club	St Joseph	MO
Oakwood Country Club	Kansas City	MO
Persimmon Woods Golf Club	Weldon Springs	MO
Shoal Creek Golf Course	Kansas City	MO
Staley Farms Golf Club	Kansas City	MO
Sunset Country Club	St. Louis	MO
Tan-Tar-A Resort Golf Club	Osage Beach	MO
The Club at Porto Cima	Sunrise Beach	MO
The National Golf Club	Parkville	MO
The National Golf Club of Kansas City	Parkville	MO
Winghaven Country Club	OFallon	MO
Bridger Creek Golf Course	Bozeman	MT
Old Works Golf Course	Anaconda	MT
Riverside Country Club	Bozeman	MT
Rock Creek Cattle Company	Deer Lodge	MT
Bald Head Island Club	South Port	NC
Carolinas PGA Section	Browns Summit	NC
Lochmere Golf Club	Cary	NC
Pinehurst Resort & Country Club	Pinehurst	NC
Quail Hollow Club	Charlotte	NC
Wade Hampton Golf Club	Cashiers	NC
Bully Pulpit Golf Course	Medora	ND
Fargo Country Club	Fargo	ND
King	Grand Forks	ND
2013 U.S. Senior Open Championship	Omaha	NE
Ager Junior Golf Course	Lincoln	NE
Albion Country Club	Albion	NE
Arbor Links Golf Course	Nebraska City	NE
Ashland Country Club	Ashland	NE
Austad	Lincoln	NE
Awarii Dunes	Axtell	NE
Bay Hills	Plattsmouth	NE
Bayside Golf Course	Brule	NE
Beatrice Country Club	Beatrice	NE
Benson Park Golf Course	Omaha	NE
Champions Run	Omaha	NE
College Heights Country Club	Crete	NE

Country Club of Lincoln	Lincoln	NE
Cox Clasic	Omaha	NE
Crooked Creek Golf Club	Lincoln	NE
Dick's Sporting Goods	Omaha	NE
Dismal River Club	Mullen	NE
Elkhorn Acres Golf Club	Stanton	NE
Elkhorn Valley Golf Club	Hooper	NE
Elks Country Club	Columbus	NE
Evergreen Hill Golf Course	Battle Creek	NE
Fair Play Golf Course	Norfolk	NE
Firethorn Golf Club	Lincoln	NE
Fremont Golf Club	Fremont	NE
Golf Galaxy	Omaha	NE
GolfTec	Omaha	NE
Happy Hollow Club	Omaha	NE
Hidden Valley Golf Course	Lincoln	NE
Highlands Golf Course	Lincoln	NE
Hillcrest Country Club	Lincoln	NE
Hillside Golf Course	Sidney	NE
Holdrege Country Club	Holdrege	NE
Holmes Golf Course	Lincoln	NE
Indian Creek Golf Course	Elkhorn	NE
Indian Meadows Golf Course	North Platte	NE
Indian Trails Country Club	Beemer	NE
Indianhead Golf Club	Grand Island	NE
Iron Eagle Golf Course	North Platte	NE
Iron Horse Golf Club	Ashland	NE
Ironwood Golf & Country Club	Omaha	NE
Jackrabbit Run Golf Course	Grand Island	NE
Jim Ager Memorial	Lincoln	NE
Kearney Country Club	Kearney	NE
Knolls Golf Course	Omaha	NE
Lake Maloney Golf Club	North Platte	NE
Landscapes Unlimited	Lincoln	NE
Lochland Country Club	Hastings	NE
Mahoney Golf Course	Lincoln	NE
Meadowlark Hills Golf Course	Kearney	NE
Miller Park Golf Course	Omaha	NE
Nebraska Golf Association	Omaha	NE
Nebraska Section of the PGA of America	Lincoln	NE
Norfolk Country Club	Norfolk	NE

North Bend Golf Course	North Bend	NE
Oak Hills	Omaha	NE
Omaha Country Club	Omaha	NE
Pacific Springs Golf Club	Omaha	NE
Pines CC	Valley	NE
Platteview Country Club	Bellevue	NE
Quarry Oaks Golf Club	Ashland	NE
Riverside Golf Club	Grand Island	NE
Sand Hills Golf Club	Mullen	NE
Scottsbluff Country Club	Scottsbluff	NE
Seward Country Club	Seward	NE
Shadow Ridge Country Club	Omaha	NE
Stone Creek Golf Course	Omaha	NE
Table Creek Golf Course	Nebraska City	NE
The Knolls Country Club	Lincoln	NE
The Knolls Golf Course	Omaha	NE
The Players Club at Deer Creek	Omaha	NE
The Prairie Club	Valentine	NE
Tiburon Golf Club	Omaha	NE
University of Nebraska PGM Program	Lincoln	NE
Warren Swigart Golf Course	Omaha	NE
West Nine at Firethorn	Lincoln	NE
West Wind Golf Club	Ogallala	NE
Wild Horse Golf Club	Gothenburg	NE
Wilderness Ridge	Lincoln	NE
Woodland Hills Golf Course	Eagle	NE
Yankee Hill	Lincoln	NE
York Country Club	York	NE
The Golf Club of New England	Stratham	NH
Crestmont Country Club	West Orange	NJ
Fiddlers Elbow Country Club	Far Hills	NJ
Liberty National	Jersey City	NJ
Ridgewood Country Club	Paramus	NJ
Trump National Philadelphia	Pine Hill	NJ
The Club at Las Campanas	Sante Fe	NM
Highland Falls	Las Vegas	NV
Binghamton Country Club	Endwell	NY
Hay Harbor Club	Fishers Island	NY
Maidstone Club	East Hampton	NY
Malone Golf Club	Malone	NY
Meadow Brook Country Club	Jericho	NY

Nassau Country Club	Glen Cove	NY
Scarsdale Golf Club	Hartsdale	NY
Sleepy Hollow Country Club	Scarborough	NY
The Apawamis Club	Rye	NY
Turning Stone Resort Casino	Verona	NY
Country Club at Muirfield Village	Dublin	OH
Hyde Park Golf and CC	Cincinnati	OH
Ivy Hills Country Club	Cincinnati	OH
Muirfield Village Golf Club	Dublin	OH
The East Club Golf and Event Center	New Albany	OH
The Golf Club of Dublin	Dublin	OH
LaFortune Park Golf Course	Tulsa	OK
Oklahoma City Golf and C.C.	Oklahoma City	OK
Shangri-La Golf Club	Monkey Island	OK
Southern Hills Country Club	Tulsa	OK
The Patriot Golf Club	Owasso	OK
Bandon Dunes Golf Resort	Bandon	OR
Forest Hills Country Club	Reedsport	OR
Pronghorn Club	Bend	OR
Pumpkin Ridge Golf Club	North Plains	OR
Aronimink Golf Club	Newtown Square	PA
Dorado del Mar Golf Club	Dorado	Puerto Rico
Belfair Plantation	Bluffton	SC
Caldonia Golf and Fish Club	Pawleys Island	SC
Arrowhead Country Club	Rapid City	SD
Austad	Sioux Falls	SD
Dakota Dunes Country Club	Dakota Dunes	SD
Elmwood Golf Course	Sioux Falls	SD
Fox Run Golf Course	Yankton	SD
Hillcrest Golf and Country Club	Yankton	SD
Minnehaha Country Club	Sioux Falls	SD
Sutton Bay	Agar	SD
The Bluffs Golf Course	Vermillion	SD
Westward Ho Country Club	Sioux Falls	SD
Willow Run Golf Course	Sioux Falls	SD
Belle Meade Country Club	Nashville	TN
Chattanooga Golf & Country Club	Chattanooga	TN
Hillwood Country Club	Nashville	TN
Spring Creek Ranch	Collierville	TN
The Governors Club	Brentwood	TN
TPC Southwind	Memphis	TN



Austin Golf Club	Spicewood	TX
Hank Haney Golf Academy Westridge	McKinney	TX
Hills Country Club	Austin	TX
Horseshoe Bay Resort	Horseshoe Bay	TX
Long Drivers of America	Roanoke	TX
Meadowbrook Farms Golf Club	Katy	TX
Noble Royalties Inc	Addison	TX
River Crest Country Club	Ft. Worth	TX
River Ridge Golf Club	Sealy	TX
Spanish Oaks Golf Club	Bee Cave	TX
TPC Craig Ranch	McKinney	TX
Traditions Club	Bryan	TX
Promontory Club	Park City	UT
Glenmore Country Club	Keswick	VA
Loudoun Golf & Country Club	Purcellville	VA
The Olde Farm Golf Club	Bristol	VA
Trump National Golf Club, Washington D.C.	Potomac Falls	VA
Virginia Oaks and Nike Golf Learning Center at Reston National	Reston	VA
Stowe Mountain Club	Stowe	VT
Seattle Golf Club	Shoreline	WA
Beloit Country Club	Beloit	WI
Blackhawk Country Club	Madison	WI
Bristlecone Pines Golf Club	Hartland	WI
Bulls Eye Country Club	Wisconsin Rapids	WI
Horseshoe Bay Golf Club	Egg Harbor	WI
Milwaukee Country Club	River Hills	WI
The Legend at Merrill Hills	Walikesha	WI
The Oaks Golf Course	Cottage Grove	WI
Timber Ridge Golf Club	Minocqua	WI
Tripoli Country Club	Milwaukee	WI
University Ridge Golf Course	Verona	WI
Whistling Straits Golf Course	Sheboygan	WI
Wild Rock Golf Club	Wisconsin Dells	WI
Wisconsin Club	Milwaukee	WI
The Greenbrier	White Sulphur Springs	WV
Buffalo Golf Club	Buffalo	WY
Cheyenne Country Club	Cheyenne	WY
Laramie Country Club	Laramie	WY
Old Baldy Club	Saratoga	WY
Powder Horn Golf Club	Sheridan	WY

Teton Pines Country Club and Resort	Jackson	WY
The Powder Horn Golf Club	Sheridan	WY
Snake River Sporting Club	Jackson	WY

## Appendix E: IRB Exemption



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INSTITUTIONAL REVIEW BOARD

April 10, 2017

Mr. Bradley Goetsch  
Dr. Dann Husmann  
203H Keim Hall 0953

Dear Mr. Goetsch,

Thank you for emailing me with the information regarding your Master's thesis project. Based on 45 CFR 46; we have determined that this project is not human subjects research which does not require IRB approval.

Based on our email discussion in March, you will be using several sources of existing data in your research. You will be using information such as faculty staff records (who was here and when), graduate information (hometowns and where they work), enrollment history (overall number), internship sites, student club history, and history on the development of the facilities, scholarship program, and curriculum, and external advisory committee. This information will be obtained through undergraduate bulletins, newsletters, internet searches, and other publicly available sites.

Your thesis project does not fall under the IRB definition of human subjects research as all of the data is publicly available.

Based on this assessment, further IRB oversight is not required; however, should the scope of your project change, please contact the IRB office at 472-6929 to discuss future procedures.

Cordially,  
  
Becky Freeman  
Research Compliance Services Specialist  
Human Research Protection Program